Mt. Sicker - Lara Drill Logs 1985-1987

827731

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	<OB>							
11.08								
11.08 to	Felsic Ash	white	fine	Moderately bedded, moderately foliated,		intensely bleached, intense sericite	2-3% pyrite, disseminated,	
15.77	<F Ash>		grained			development on foliation surfaces	laminated	
				14.30 to 15.77				
				abundant interbedded chert			2-3% pyrite, minor chalcopyrite	
15.77 to	Intermediate	medium	fine to	Thin to moderately bedded, weak to		moderate to well developed	2% disseminated pyrite, local	
22.63	Tuff to Ash	grey	medium	moderately foliated		sericite and minor chlorite	stringers	
		green	grained			on foliation surfaces		
	<Int Tuff-Ash>							
				17.90 to 21.93				
				60% Felsic Ash interbeds with				
				30% Chert.				
				19.17 to 19.20 Fault, gouge seam	53°			
				20.20 to 20.40 Fault, strongly				
				sheared, abundant gouge	62°			
22.63 to	<Diorite>	dark	medium	Thick, massive, Karmutsen				
53.00		green	grained					

HOLE NO 85-66

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
53.00	Felsic Tuff	white	fine to	Thick bedded; weak to moderately		intensely bleached; intense	1% pyrite, patchy and in	
64.45			medium	foliated; minor quartz eyes to 1mm;		sericite development on foliation	stringers, trace chalcopyrite	
	(F Tuff)		grained	weak granular appearance;		surfaces		
64.45 to	Andesite	medium	medium	Thick bedded, massive; moderately		weak to moderate chlorite	2% pyrite, disseminated, patchy	
~~[illegible]~~	Lithic Tuff	green	grained	foliated;		development on foliation	and stringers, minor chalcopyrite	
at least						surfaces.		
78.50	(And LT)							

HOLE NO 85-66

PAGE 2

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm·T Ag	gm·T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14487	15.77	17.90																					
14488	17.90	19.39																					
14489	19.39	20.67																					
14490	20.67	21.55																					
14491	21.55	22.63																					
14492	61.16	63.00																					
14493	63.00	64.45																					

25-66

PAGE _____

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
33.60	<OB>							
33.60	Intermediate	light	fine to	Thin bedded, moderate to		well developed sericite and	3-5% pyrite, fine to medium	foliation locally contourted
55.15	Tuff-Ash	grey,	medium	strongly foliated, granular in		very minor chlorite on	grained, disseminated, patchy	
	<Int Tuff-	weak	grained	appearance, rare quartz eyes to		foliation surfaces;	and local stringers, minor	
	Ash>	cream		2mm;			chalcopyrite and sphalerite;	
		cast						
							8.20 to 9.54	
							5-10% pyrite, fine to medium grained	
							disseminated, patchy and stringers;	
							stringers contain sphalerite,	
							chalcopyrite;	
				11.73 to 12.00				
				moderately sheared				
				12.00 to 15.20				
				abundant finely interbedded				
				felsic to intermediate ash				
				29.00 to 34.37				
				abundant finely interbedded				
				felsic Ash to chert;				

HOLE NO 85-70

PAGE 10

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				36.28 to 37.77			5% pyrite, coarse grained,	
				Intermediate to Andesite Lithic			patchy, stringers	
				Tuff to Ash				
				37.77 to 48.90				
				<Diorite>				
55.15 to	Felsic	white to	fine to	Thick bedded; moderate to badly		strongly to intensely bleached;	1% pyrite fine to medium	
68.70	Tuff	very light	medium	strongly foliated; rare quartz		intense sericite development	grained; disseminated, patchy	
		grey	grained	eyes to 1mm		on foliation surfaces	and in stringers	
	[FTuff]							
68.70 to	Andesite	medium	medium	Thick bedded; moderately foliated;		moderate to well developed	1-2% pyrite; disseminated,	
→	Lithic Tuff	green	grained	very cyanular in appearance;		chlorite on foliation	patchy, minor stringers,	
						surfaces	local trace chalcopyrite;	
	[AnLT]							

HOLE NO 85-70

86-80

W262

1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
12.97								
12.97 to	Felsic Tuff	very light	medium	Thick bedded, moderately foliated;		moderate sericite/chlorite	4% pyrite.	correlates with interval between
17.95	(FTuff)	grey, weak	grained	rare quartz eyes to 2mm; quite		development on foliation		13.90 to 20.60 in Hole 81;
		green		granular in appearance; locally		surfaces		local strong oxidization.
		cast		very weak epidote altered				
				lithic fragments to 3mm;				
17.95 to	Intermediate	medium	fine	Thin to moderately bedded; moderately		moderate to well developed	2-3% pyrite, fine to medium	
26.12.	Ash to Lithic	grey	to medium	foliated; 10% to locally 15%		sericite and chlorite on	grained; disseminated,	
	Tuff	green	grained	interbedded felsic ash to chert;		foliation surfaces;	stringers and finely bedded;	
				Possible Andesite interbeds				
	(Int Ash-			(AB 20.07	50°			
	LT)							
				25.80 to 26.12				
				50% Diorite				
26.12 to	(Diorite)	dark	medium	Massive Hornfelsen				
38.40		green	to coarse					
			grained					
38.40 to	Intermediate	medium	fine to	Thin to moderately bedded;		moderate to well developed	1-2% pyrite; fine to medium	
45.70	Ash to Lithic	grey;	medium	moderately foliated; 5 to 10%		sericite and chlorite on	grained, disseminated; stringers	
	Tuff	green	grained	interbedded felsic ash and chert;		foliation surfaces	and finely bedded;	
	(Int Ash-							
	LT)			44.00 To 44.12 Fault				
				intensely sheared, abundant gouge	50°			

86-80

86-80

(2)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
45.70 to	Felsic Tuff	white	fine to	Thick bedded; moderate to strongly		intense sericite development on	3-5% pyrite predominately	foliation locally contorted,
58.06			medium	foliated;		foliation surfaces	stringers, trace chalcopyrite	minor Fe Folds
	(F Tuff)		grained					
58.06	Andesite	medium	medium	Thick bedded; moderately foliated;		weak to moderate chlorite	1-2% pyrite, predominately disseminated,	
	Lithic Tuff	green	grained			development on foliation surfaces	minor stringers	
	(Andes T)							
				64.45 to 64.70			15-20% pyrite, bedded;	

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14406	17.95	19.50																					
14407	19.50	22.20																					
14408	22.20	23.76																					
14409	23.76	26.12																					
14410	38.40	40.74																					
14411	40.74	42.20																					
14412	42.20	43.54																					
14413	43.54	44.35																					
14414	44.35	45.70																					
14415	45.70	47.74																					
14416	47.74	50.06																					
14417	50.06	51.95																					
14418	51.95	53.68																					
14419	53.68	54.90																					
14420	54.90	56.55																					
14421	56.55	58.06																					
14422	58.06	60.60																					

HOLE NO _____ PAGE _____

ZIPPY PRINT — BRIDGEPORT RICHMOND

86-81 in W 262 (1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
13.90	(OB)							
13.90 to	Felsic Tuff	very light	medium	Thick bedded, moderately foliated;		well developed sericite, minor		
20.60	(FTuff)	grey weak	grained	1% Quartz eyes to 2mm, quite		chlorite on foliation		
		green		granular in appearance; local weakly		surfaces		
		cast		epidized fragments to 5mm,				
				13.90 to 15.80			5% pyrite, predominately stringers	
				15.80 to 20.60			1-2% pyrite, predominately stringers	
20.60 to	Intermediate	medium	fine to	Thin to moderately bedded;		moderate sericite/chlorite	1% pyrite, very fine grained;	
27.28	Ash to lithic	greyish	medium	weak to moderately foliated; 15 to		development on foliation	disseminated and bedded;	
	Tuff	green	grained	20% interbedded felsic ash and		surfaces		
				chert; possible Andesite intervals				
	(Int Ash-LT)							
				20.60 to 24.90				
				very poor recovery; core				
				badly broken;				
				CAB 22.00	78°			
				CAB 25.20	68°			

HOLE NO. 86-81

86-81 (1)

86-81

(2)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
27.28	(Diorite)	dark	medium to	Massive; Karmutsen		—		
44.70		green	coarse					
			grained					
44.70	Intermediate	medium	medium	Thin to moderately bedded;		weak to moderate sericite	1% pyrite, disseminated, rare	
50.90	Lithic Tuff	greyish	grained	<10% felsic Ash to chert interbeds		chlorite development on	stringers	
		green				foliation surfaces		
	(Int LT)							
50.90	Felsic	white	fine to	Thick bedded; moderate to		intense sericite development		Blitzed
65.16	Tuff		medium	strongly foliated;		on foliation surfaces		
	(FTuff)		grained					
				50.90 to 53.77			1-2% pyrite, stringers;	
				53.77 to 54.91			1% pyrite, stringers;	
				54.91 to 56.70			1-2% pyrite, stringers	
				56.70 to 58.42			3-5% pyrite, stringers; trace chalcopyrite	
				58.42 to 59.40			1-2% pyrite, stringers, trace chalcopyrite	
				59.40 to 60.70			2-3% pyrite stringers, trace chalcopyrite	
				60.70 to 61.99			2-3% pyrite stringers, trace chalcopyrite	

86-81

(3)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				61.98 to 63.70		—	2-3% pyrite stringers, trace chalcopyrite	
				foliation contorted, local F_2 folds				
				63.70 to 65.16			1-2% pyrite stringers	
				foliation contorted, local F_2 folds				
65.16 to	Andesite	medium	medium	Thick bedded; moderately foliated;		well developed	3% pyrite, disseminated, patchy	
→	lithic Tuff	green	grained			chlorite on foliation		
						surfaces		
	[Andlt]			65.16 to 67.60, core very				
				rubbly, poor recovery				

HOLE NO. 86-81

PAGE 3

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14382	13.90	15.80																					
14383	15.80	17.30																					
14384	17.30	18.70																					
14385	18.70	20.60																					
14386	20.60	22.25																					
14387	22.25	24.90																					
14388	24.90	26.00																					
14389	26.00	27.28																					
14390	44.70	46.30																					
14391	46.30	48.32																					
14392	48.32	50.10																					
14393	50.10	50.90																					
14394	50.90	53.77																					
14395	53.77	54.91																					
14396	54.91	56.70																					
14397	56.70	58.42																					
14398	58.42	59.40																					
14399	59.40	60.70																					
14400	60.70	61.98																					
14401	61.98	63.70																					

HOLE NO 86-81

PAGE

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ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14402	63.70	65.16																					
14403	65.16	67.60																					

HOLE NO 66-81

PAGE

ZIPPY PRINT BRIDGEPORT RICHMOND

86-82 in W262 W/1

relogs 262 felsics all entered into D: W262 directory

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	ES	REMARKS
0.00 to								
17.00	<OB>							
17.00 to	Intermediate	medium	fine to	Thin to moderately bedded; weak to		moderate sericite, chlorite	to medium	locally strongly weathered
39.50	Ash-Lithic	grey	medium	moderately foliated; 10% felsic Ash		on foliation surfaces;	grained; disseminated; bedded;	
	Tuff	green	grained	to lost interbeds; minor andesitic			minor stringers	
	<Int-Ash-			interbeds;				
	Tuff>							
				25.30 to 30.80 <Diorite>				
				Karmutsen				
				30.80 to 38.40				
				foliation (bedding?) highly contorted;				
				local F_2 folds				
39.50 to	Felsic Tuff	very	fine to	Thick bedded, weak to moderately		well developed sericite on	2-3% pyrite; predominately	
55.78		light	medium	foliated;		foliation surfaces	stringers; trace chalcopyrite;	
	<F Tuff>	grey	grained					
55.78 →	Andesite	light to	medium	Thick bedded, weak to				
	Lithic Tuff	medium	grained	moderately foliated;				
		green						
	<Ant>							

HOLE NO. 86-82 86-82. PAGE 1

in W 262.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 5.18	<OB>							
5.18 to	Felsic Ash	white	very fine	moderate to strongly foliated;		Intensely bleached; well developed	minor disseminated, laminated	locally strongly oxidized
12.00	<FAsh>		grained	interval locally strongly sheared,		sericite on foliation surfaces	very fine grained pyrite	<50% recovery throughout
				local gouge seams.				
12.00	Intermediate Lithic	very light	medium	Thin to moderately bedded; moderately		bleached,	1-2% pyrite, local trace chalcopyrite	
15.71	Tuff, local ash	greenish	to fine	foliated, minor frags to 3mm; local				
	<Int LT>	grey	grained	andesitic Interbeds.				
				12.26 to 13.12				
				Intermediate Ash and Chert		well developed sericite/chlorite on	1-2% very fine grained	
						foliation surfaces	bedded pyrite	
				13.68 to 14.47			2 to 3% very fine grained bedded	
				Intermediate Ash			pyrite, minor chalcopyrite, trace	sphalerite
				CAB 13.38	55°			
				14.47 to 15.71				
				local chert fragments to 6mm				
15.71	Intermediate	light	very	moderate to strongly foliate		well developed sericite on	1-2% pyrite, fine grained,	locally strongly
26.72	Ash	grey	fine	very finely bedded.		foliation surfaces	disseminated, laminated, bedded	oxidized; minor F1 folds
	<Int Ash>	weak	grained				local stringers	
		green						
		cast		15.71 to 20.40				~15% recovery
				local chert interbeds				
				throughout				

HOLE NO 86-84

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				20.40 to 23.40				~30% recovery
				abundant chert interbeds.				
				24.00 to 24.20				
				predominately chert				
				24.44 to 24.52 gouge				
				24.84 to 24.92 gouge	45°			
				25.00 to 25.20				
				abundant chert CAB	60°			
				26.10 to 26.50				
				Andesite lithic lapilli Tuff				
				15 to 20% light green epidote				
				altered lithic fragments to 1cm				
				26.50 to 26.72				
				Chert			3% very fine grained pyrite	
26.72	Felsic	very light	fine to	moderate to strongly foliated;		well developed sericite on	2-3% pyrite disseminated	locally strongly oxidized;
38.85	Tuff	grey to	medium	1-2% chlor, altered fragments to		foliation planes	minor stringers, trace	local Fe sticks
	LFT(F)	white	grained	2mm;			chalcopyrite;	

HOLE NO 86-84

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				34.20 to 34.40				
				strongly sheared				
				37.40 to 38.85				
				intensely sheared, local gouge				
				very poor core recovery				
38.85 to	Intermediate	medium	medium	moderate to strongly foliated,		well developed sericite, chlorite on	1% pyrite, disseminated, local	
54.80	lithic tuff	grey	grained	core badly broken, local ash		foliation surfaces	stringers, trace chalcopyrite	
		weak cyanite		interbeds,				
	[Int lit]	cast						
				38.85 to 39.05 intensely sheared				
				40.20 to 41.40 strongly sheared				very poor recovery
				local gouge, minor quartz veins				
				with coarse grained pyrite				
				and trace chalcopyrite.				
				42.00 to 43.50				
				locally strongly sheared, minor				
				gouge.				
				45.40 to 46.62				
				very poor recovery 240%				
				46.62 to 48.10				
				minor chert interbeds, very				
				poor recovery.				

HOLE NO 86-84

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
54.80 to	(Diorite)	dark	medium	Feldspar Porphyritic, core badly		—		Harmutsen.
65.20		green	to coarse	broken, local shearing and				
			grained	squeeze from 54.40 to 61.50				
65.20 to	(Chert)	light grey	very	between 65.50 and 66.50 is an			trace disseminated pyrite.	
67.03			fine	intermediate ash.				
			grained					
67.03	Felsic Tuff	white to	fine	weak to moderately foliated, locally		well developed sericite on	1-2% pyrite, disseminated,	Lapilli Tuff?
88.80	to lapilli	very light	grained	well defined fragments to 1cm,		foliation surfaces, patchy	patchy, minor stringers	
	tuff	grey		possible a clast supported fragmental		silicification and bleaching		
	(Tuff-Lat)			67.03 to 68.52.				
				Intermediate Tuff				
				68.52 – 70.10 Felsic Ash.				
				CAB 68.60	48°			
				81.10 to 82.50				
				70% diorite.				
				82.50 to 83.09			2-3% pyrite.	
				Sheared and bleached interval				
				more intermediate in composition				
				83.09 to 83.73		strongly bleached	5% pyrite, minor chalcopyrite	* The massive pyrite
							massive pyrite between 83.09 and	appears bedded
							83.17m	

HOLE NO 86-44

PAGE 4

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				83.73 to 84.10			5-10% pyrite trace chalcopyrite	
				sheared and healed interval				
				84.10 to 87.00				
				Diorite				
				87.00 to 87.40, Fault, intensely				
				sheared, abundant gouge.				
88.80 to	(Fault)			Mylonized interval, almost appears			1-2% fine grained disseminated pyrite	
95.35				to be local, bedded, predominately				
				andesitic in composition (local				
				diorite) abundant felsic fragments				
				and epidote altered lithic				
				fragments, also local quartz vein				
				fragments				
95.35 to	Felsic Quartz	white	medium	Thick bedded, massive, weakly		well developed sericite on	2-3% medium grained pyrite,	"Blitzed" ; local F. folds
107.60	Porphyry Tuff		grained	foliated, local well developed		foliation surfaces,	disseminated, patchy local	
				shear texture. 3-5% quartz eyes to 6mm,			stringers, local trace chalcopyrite	
	(QP Tuff)							
				95.35 to 98.80				
				strongly sheared, locally brecciated				
				and healed.				
				106.30 to 106.60				
				strongly sheared, local gouge.				

HOLE NO 86-44

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
107.60 to	Felsic Tuff	white to	medium	weakly foliated; interval has a		moderate to well developed	1-2% pyrite, disseminated,	
132.53		light grayish	grained	moderate to strong shear texture		sericite on foliation surfaces		
	(Tuff)	green		throughout; rare Quartz eyes to 2mm;		locally strongly bleached,		
				local light green epidote altered fragments		and patchy silicification		
				108.80 to 110.40 fault; intensely sheared				
				abundant gouge.				
				113.00 to 113.80 fault				
				very strongly sheared, local gouge.				
				113.80 to 115.00			3-5% pyrite, disseminated,	
				local light green epidote altered			patchy and stringers, minor	
				fragments;			chalcopyrite	
				115.00 to 122.53				
				core badly broken, locally				
				very poor recovery				
				122.53 to 127.10			3-5% pyrite, disseminated and	
				3 to 5% quartz eyes to 5mm			in stringers, trace chalcopyrite	
				127.10 to 127.46		well developed chlorite		
				Andesite Lithic Tuff		on foliation surfaces		

HOLE NO 86-84

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				127.46 to 132.53 Fault				
				intensely sheared, abundant gouge				
132.53	Andesite Ash	medium to	fine to	foliation contains minor F_2 folds		moderate to well developed		
138.67	to lithic	dark	medium	local felsic dykes throughout		chlorite on foliation		
	Tuff	green	grained	this interval.		surfaces		
	(And Ash-							
	LT)							
138.67 -	Andesite	medium to	medium	Thick bedded weak to moderate.		weak chlorite development	1% pyrite	
	Lithic to	dark	to	folded		on foliation surfaces		
	Lapilli Tuff	green	coarse					
			grained					
	(And LT-LT)							

HOLE NO 86-84

PAGE 7

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14313	12.26	13.12																					
14314	13.12	13.68																					
14315	13.68	14.47																					
14316	14.47	15.71																					
14317	15.71	17.30																					
14318	17.30	20.40																					
14319	20.40	23.40																					
14320	23.40	24.30																					
14321	24.30	26.10																					
14322	26.50	26.72																					
14323	26.72	28.34																					
14324	28.34	30.11																					
14325	30.11	31.60																					
14326	31.60	33.00																					
14327	51.20	53.34																					
14328	65.20	65.50																					
14329	65.50	66.50																					
14330	66.50	67.03																					
14331	68.52	70.10																					
14347	33.00	34.30																					

HOLE NO. 86-88

PAGE

ZIPPY PRINT - BRIDGEPORT, RICHMOND

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14332	82.50	83.09																					
14333	83.09	83.73																					
14334	83.73	84.10																					
14335	95.35	95.80																					
14336	95.80	96.60																					
14337	96.60	97.70																					
14338	97.70	98.64																					
14339	98.64	101.18																					
14340	113.80	115.00																					
14341	110.50	112.30																					
14342	112.30	113.80																					
14343	122.53	124.00																					
14344	124.00	125.13																					
14345	125.13	127.10																					
14346																							

HOLE NO 86-84

PAGE

ZIPPY PRINT - BRIDGEPORT RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14313	12.26	13.12																				
14316	14.46	15.71																				
14324	28.34	30.11																				
14327	51.20	53.34																				
14339	98.64	101.18																				

Hole No. _____ Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 12.85	(OB)							
12.85 to 17.74	Felsic Ash (F Ash)	white	fine grained	Moderately bedded, moderately foliated, rare chert interbeds		intensely bleached, intense sericite development on foliation surfaces	2-3% pyrite, stringers, minor chalcopyrite	
				14.10 to 14.61 Intermediate Ash				
							16.28 to 16.35 MSX pyrite, stringer?	
17.74 to 22.85	Intermediate Tuff (Int Tuff)	light greyish green	medium grained	Thick bedded, moderately foliated,		moderate to well developed sericite and minor chlorite	1-3% pyrite, disseminated, patchy and stringers, minor chalcopyrite	
22.85 to 26.65	Felsic Ash to Tuff (F Ash Tuff)	white	fine to medium grained	Thick bedded, moderate to strongly foliated,		intensely bleached, local mottled look, well developed sericite	3% locally 5% pyrite, minor chalcopyrite, predominately stringers	foliation broly contorted
				26.15 to 26.25 Fault, intensely sheared, abundant gouge.				
				26.25 to 26.65, minor interbedded intermediate to Andesite Ash, minor chert				

HOLE NO 86-90

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
26.65 to	Andesite Ash	medium to	fine	Thick bedded, moderate to strongly		moderate to well developed	3% pyrite, patchy, stringers	
31.60		dark green	grained	foliated,		chlorite on foliation surfaces	minor chalcopyrite.	
	(And. Ash)							
31.60 to	(Diorite)	medium to	fine to	Massive, locally moderately		Strongly calcareous,		
55.20		dark green	medium	foliated, well developed upper		minor leucoxene		
			grained	chill margin.				
55.20	Felsic Ash to	white to	fine to	Massive, moderate to strongly		intensely bleached, intense	1% pyrite, patchy veins	
78.92	Tuff	light grey	medium	foliated, local weak granular		sericite development on	stringers, local trace	
		local weak	grained	appearance		foliation surfaces	chalcopyrite.	
	(FAsh-Tuff)	green cast						
				66.74 to 67.24				
				possible diorite				
							72.50 to 78.92	
							2-3% pyrite, predominately	
							stringers, minor chalcopyrite	
78.92 to	Andesite	medium to	medium	Thick bedded, weak to		weak to moderate chlorite	3% pyrite disseminated, patchy	foliation generally distributed.
at least 80.00	Lithic Tuff	dark	grained	moderately foliated, very		development on foliation	and stringers, local minor	
		green		granular in appearance		surfaces	chalcopyrite	
	(And LT)							

HOLE NO 86-90

PAGE 2

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 9.14	(OB)							
9.14 to 15.68	Felsic Ash (FAsh)	white	fine grained	Thick bedded; moderate to strongly foliated;		intensely bleached; intense sericite development on foliation surfaces;	3% pyrite, predominately stringers minor chalcopyrite	
15.68 17.47	Intermediate Ash (IntAsh)	light green grey	fine grained	Thin to moderately bedded; moderately foliated; 90% interbedded felsic Ash, 10% interbedded chert		moderate to well developed sericite and chlorite on foliation surfaces	minor pyrite	
				CAB at 17.09 m	46°			
17.47 23.42	Felsic Ash (FAsh)	white	fine grained	Moderately bedded; moderate to strongly foliated;		intensely bleached; intense sericite development on foliation surfaces	5% pyrite, predominately stringers; minor chalcopyrite	
				21.04 to 21.90 Intermediate Lithic tuff				
				21.90 to 23.42 Felsic Tuff				
23.42 32.18	Intermediate Tuff (IntTuff)	light greyish green	medium grained	Moderately bedded, moderately bedded;		moderate to well developed chlorite on foliation surfaces		

HOLE NO 86-91

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				26.57 to 27.42		mottled appearance.		
				Felsic Tuff, local fragmental			massive pyrite, minor chalcopyrite	
				appearance;			between 27.25 + 27.32.	
				CAB at 25.78	30°			
				27.42 to 29.63				
				Intermediate to Andesite lithic			10-15% pyrite, minor chalcopyrite	
				Tuff			predominately stringers	
				29.63 to 30.14				
				Felsic Ash and Chert				Corresponds to interval
				CAB 30.14 m.				between 26.25 to 26.65 m
				30.14 to 32.18				in DDH86-90
				Intermediate to Andesite Tuff			5 to 10% pyrite predominately	
							stringers;	
32.18 to	Andesitic lithic	medium to	fine to	Moderately foliated; moderately		moderate to well developed	5% pyrite;	foliation locally very
33.55	Tuff to Ash	dark	medium	foliated;		chlorite on foliation		contorted;
		green	grained			surfaces;		
33.55	(Diorite)	medium to	medium	Massive, locally moderately		Strongly calcareous.		
61.60		dark green	grained	foliated;				

HOLE NO 86-91

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
60.00 to	Andesite Lithic	medium to	medium	Thick bedded, massive; weak to		weak to moderate developed	2-3% pyrite; trace chalcopyrite,	
at least	Tuff	dark green	grained	moderately foliated; very granular		chlorite on foliation	disseminated, plus minor	
71.00				in appearance		surfaces	stringers;	
	(AndLT)							

HOLE NO 86-91

PAGE 3

86-91

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm·T Ag	gm·T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14494	15.68	16.99																					
14495	16.99	17.47																					

HOLE NO 86-91

PAGE

DRILL HOLE RECORD

PROJECT NAME :	LARA	DATE STARTED (M/D/Y):	
HOLE NUMBER :	86-100	DATE COMPLETED (M/D/Y):	
LOCATION :		DATE LOGGED (M/D/Y):	
PROJECT NUMBER :		UNITS (F/M) :	M
CLAIM NUMBER :			
PLOTTING COORDS	GRID :	ALTERNATE COORDS	GRID :
	NORTH : 112+48 N		NORTH : _____+ __ _
	EAST : 70+84 W		EAST : _____+ __ _
	ELEV : 716+00 m		ELEV : _____.___
COLLAR BRNG	GRID : ___° __' __"	COLLAR SURVEY (Y/N) :	
	ASTRONOMIC : 203° __' __"	RQD LOG (Y/N) :	
	COLLAR DIP : -48° __' __"	PULSE EM SURVEY (Y/N):	
CONTRACTOR :		LOGGED BY :	
CORE STORAGE :		START DEPTH:	0.00
CASING :		FINAL DEPTH:	206.35m
PLUGGED (Y/N) :			
HOLE SIZE :			
PURPOSE/COMMENTS :			

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS
91.44	A	~	-43		OK
206.35	A	~	-43		OK.

HOLE NO. _____ LOGGED BY _____

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				202.92 to 206.35				
				Andesite Lapilli Tuff (And LaT)				
				10% light green epidote altered, lithic				
				fragments 4mm to 3cm;				
206.35	(EOH)							

HOLE NO 86-100

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid
17152	20.30	23.30	72.84	13.13	2.01	0.60	3.85	2.73	0.75	0.02	.23	0.080	8	12	28	.50	5				
17153	47.80	50.80	72.73	13.40	1.43	1.96	2.92	3.28	1.17	0.03	.22	0.175	4	5	16	.40	5				
17154	72.20	75.20	71.01	14.19	0.46	2.82	0.69	3.54	2.77	0.04	.33	0.145	13	19	20	.60	5				
17155	78.50	80.50	45.65	14.35	10.15	5.89	1.31	2.15	11.59	0.25	1.82	0.005	150	98	32	1.4	10				
17156	109.28	114.00	48.40	15.89	3.59	7.37	2.31	2.59	11.00	0.26	1.21	0.065	114	135	36	1.5	5				
13631	125.75	127.70	60.96	13.40	0.67	6.11	1.99	2.85	6.92	0.17	0.38	0.105	390	104	38	1.0	10				
17157	146.34	149.34	66.87	14.45	2.58	1.96	1.57	3.27	4.72	0.05	0.35	0.335	204	30	28	.80	35				

26.7 to 31
66.3 to 69.3 — NFG | crosse Boundries of Lith units
94.1 to 97.10
128.3 to 131.30 NFG \ crosses Boundries
161.4 to 164.40
188.5 to 191.50

Hole No. _____ Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	Ba		
13629	118.30	119.49														40	96	76	0.80	2			
13630	122.48	123.90														171	98	17	0.90	8			
13631	125.75	127.70																					
13632	131.63	132.93														24	114	19	0.80	12	1510		
13633	132.93	134.18														16	70	16	0.60	1	1930		
13634	134.18	135.04														10	52	9	0.40	2	1610		
Chert/Ash																							

HOLE NO 86-100

PAGE

ZIPPY PRINT - BRIDGEPORT RICHMOND

LARA DRILL RESULTS

DDH-86-100
AVG CORE ANGLE 90
DIP OF ZONE 64

ANALYSIS CODE	GEOLOGIC DESCRIPTION	UNIT NUMBER	TAG NUMBER	START METERS	FINISH METERS	INTERVAL METERS	HORIZONTAL THICKNESS	BA GRADE PPM	CU GRADE PPM	PB GRADE PPM	ZN GRADE PPM	AG GRADE PPM	AU GRADE PPB	SPECIFIC GRAVITY	TRUE THICKNESS
CORONATION ZONE															
G2	1QEXT	DDH86-R100	4-1	35.66	36.75	1.09	1.21		-1	-2	19	-0.2	-5		1.09
G2	1QEXT	DDH86-R100	4-2	36.75	38.00	1.25	1.39		2	-2	14	-0.2	-5		1.25
G2	1QEXT	DDH86-R100	4-3	38.00	40.00	2.00	2.23		-1	-2	15	-0.2	-5		2.00
G2	1QEXT	DDH86-R100	4-10	60.30	61.57	1.27	1.41		3	-2	26	-0.2	-5		1.27
G2	1-2XT	DDH86-R100	9-1	71.69	73.06	1.37	1.52		129	-2	20	-0.2	-5		1.37
G2	1-2XT	DDH86-R100	9-2	73.06	74.15	1.09	1.21		22	-2	16	-0.2	-5		1.09
G2	1-2XLT	DDH86-R100	13-3	101.75	103.16	1.41	1.57		37	-2	56	-0.2	15		1.41
G2	1-2XLT	DDH86-R100	13-4	103.16	104.25	1.09	1.21		11	-2	52	-0.2	20		1.09
G2	DIORITE	DDH86-R100	14-2	108.57	109.28	0.71	0.79		49	17	49	-0.2	15		0.71
G2	1-2DT	DDH86-R100	19	135.04	136.45	1.41	1.57		42	2	80	-0.2	10		1.41
G2	1LAT	DDH86-R100	20	136.45	138.70	2.25	2.50		19	-2	90	-0.2	-5		2.25
G2	1QEDT	DDH86-R100	21	138.70	140.93	2.23	2.48		105	3	53	-0.2	-5		2.23
G2	1QELT	DDH86-R100	23-1	146.34	148.43	2.09	2.33		229	8	28	-0.2	15		2.09
G2	1QELT	DDH86-R100	23-2	148.43	150.44	2.01	2.24		128	-2	13	-0.2	-5		2.01
G2	1QELT	DDH86-R100	23-3	150.44	152.05	1.61	1.79		36	-2	14	-0.2	-5		1.61
G2	2LT	DDH86-R100	24-1	152.05	153.66	1.61	1.79		540	5	197	0.2	15		1.61
G2	2LT	DDH86-R100	24-2	153.66	155.07	1.41	1.57		2980	5	151	0.9	25		1.41

1.61	540	869.4	197	317
1.41	2980	4202	151	213
3.02	1680			175

0.00 to 20.30 <OB>

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
20.30 to	Quartz Porphyry	white.	medium	Thick bedded, massive, weakly		Well developed sericite on	trace disseminated pyrite; rare	Blitzed
26.10	Felsic Tuff		grained	foliated; 3-5% quartz eyes to 5mm;		foliation surfaces; Bleached locally	trace chalcopyrite	
				possibly a small percent of		silicified; local strong iron		
	<QP Tuff>			strongly altered feldspars;		carbonate staining;		
26.10	Felsic	light	medium	Thick bedded, massive, weakly foliated,		moderate developed sericite, trace	trace disseminated pyrite	possibly a more weakly altered
32.31	Quartz Porphyry	grayish	grained	3% to Quartz eyes to 4mm, possibly a		chlorite on foliation surfaces		version of the above unit
	Tuff	green		small percentage of strongly		patchy bleaching and silicification		possibly fragmental
				altered feldspars.				
	<QP Tuff>							
32.31 to	Felsic Lapilli	light	coarse	Thick bedded, massive, weakly		weakly developed sericite on	1% disseminated pyrite and	
44.20	Tuff	grayish	grained	foliated; Felsic fragments are white to		foliation surfaces; fragments	pyrites	
	<FLaT>	green		light gray, are very siliceous; the		are bleached and silicified;		
				textures within the fragments are		weak epidote alteration to the		
				generally obscured, only minor		groundmass.		
				feldspars still visible; fragments				
				may comprise up to 50% of the				
				interval; groundmass is light to				
				medium green in colour and contains				
				3 to 5% glassy to clay altered and				
				weakly epidote altered feldspar				
				crystals 1mm, 1-2% Quartz				
				eyes to 5mm.				
				34.00 CAF	80°			

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
44.20 to	Felsic Quartz	white	medium	Thick bedded; massive; weakly foliated;		moderate to well developed sericite	trace disseminated pyrite; rare	upper and lower contacts not well
55.05	Porphyry Tuff		grained	5% quartz eyes		on foliation surfaces;	patches and stringers	defined;
	(QP Tuff)							
55.05 to	Felsic Lapilli	white to	coarse	Thick bedded; massive; weakly		moderate to well developed	trace disseminated pyrite; rare	
62.38	Tuff	greyish	grained	foliated; Felsic fragments are		sericite on foliation surfaces;	patches and stringers	
	(FLaT)	green		bleached white; fine grained and		felsic fragments bleached and		
				very siliceous; textures in the frags		silicified		
				are generally obscured; minor				
				Quartz eyes and feldspar crystals				
				still visible; groundmass is a				
				greyish green colour; 3% quartz				
				eyes to 2mm; 2 to 5% ghosty to				
				chlorite altered feldspar x's to ½mm;				
				56.08 to 56.99				
				90% quartz vein; minor shearing in				
				host rock.				
				57.85 to 58.45				
				90% quartz vein.				
				58.45 to 59.80				
				minor quartz veining				
				59.80 to 60.00				
				quartz vein with minor massive pyrite				

HOLE NO 86-100

PAGE 2

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				61.57 to 62.38				
				groundmass, much more mafic, intermixing				
				from lower andesites.				
62.38 to	Andesite Lithic to	medium to	medium to	Thick bedded, moderately foliated; 1%		moderate to well developed	the epidote altered lithic fragments	
67.17	Lapilli Tuff	dark	coarse	epidote altered lithic fragments to		chlorite on foliation surfaces,	contain coarse grained pyrite, 2-3%	
		green	grained	4cm; 5% medium to dark green			disseminated, patchy and minor	
	<And Lo-LoT>			lithic fragments to 3mm; 2-3%			stringers of medium grained pyrite.	
				ghosty to epidote altered feldspar				
				crystals to 4mm;				
				64.46 to 64.17				
				Fault, gouge.	90°			
67.17 to	Felsic Lapilli	medium	coarse	Thick bedded; massive; weakly foliated;		weakly developed sericite on foliation		
69.38	Tuff	grey, weak	grained	Felsic fragments are bleached white and		surfaces; weak pervasive		
		greenish		very siliceous; 20% of the interval to 5cm		silicification.		
	<FLoT>			Ground mass is a greenish grey colour;				
				2-3% ghosty to weakly epidote				
				altered feldspar crystals to 1mm;				
				68.40 to 69.38				
				Felsic Lapilli Tuff				

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
69.38 to	Andesite	medium	medium	Thick bedded; moderately foliated.		moderate to well developed	1% disseminated patchy fine	
71.69	Lithic Tuff	green	grained	15 to 20% dark green lithic frags		chlorite on foliation	to medium grained pyrite.	
				"Pumice" flattened into foliation		surfaces; weak to moderate		
	(And LT)			plane; up to 1.50cm x 3mm;		pervasive epidote alteration;		
						weakly calcareous		
				71.50 CAF	88°			
71.69 to	Felsic Quartz	light	medium	Thick bedded; massive; weak to		moderately developed sericite	1-2% patchy and stringer	does not appear to be a
77.20	Porphyry lithic	grey, weak	grained	moderately foliated; 1-2% quartz		on foliation surfaces; local	pyrite;	coarse fragmental
	Tuff	green cast		eyes to 3mm; 2-3% ghosty to		patchy silicification, and		
				clay altered feldspar crystals to		bleaching		
	(QP Tuff)			1.5mm; 3 to 5% medium green lithic				
				fragments to 2mm;				
				76.97 to 77.20				
				Foliation highly contorted, minor	85°			
				gouge				
77.20 to	Andesite	medium	medium	Thick bedded; weak to moderate		moderate to well developed	1% disseminated fine grained	
81.63	Crystal lithic	green	grained	foliated; 5% ghosty to weakly		chlorite on foliation	pyrite	
	Tuff			epidote altered feldspar crystals		planes; weak to moderate		
				to 1.5mm; 1-2% epidote altered		pervasive epidote alteration		
	(And XLT)			lithic fragments to 3mm;				
				5% medium to dark green lithic				
				fragments and or crystals to				
				3mm;				
				77.70 to 78.36				

80% quartz veins

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
81.63	Felsic Lithic to	light to	medium to	Thick bedded, weak to moderately		moderate to well developed	minor disseminated and	
89.91	Lapilli Tuff	medium	coarse	foliated; Fragments are bleached white		sericite on foliation planes	stringer pyrite	
		grey	grained	and very fine grained, Felsic Ash;				
	(F.LT-LaT)			2 to 3%, to 5cm, locally, white				
				siliceous felsic frags to 4mm;				
				groundmass contains minor feldspars				
				and quartz eyes				
				82.44 to 82.59				
				Fault, gouge	65°			
				83.20 to 83.24				
				Fault, gouge	85°			
				84.75 to 85.04				
				intensly epidized section, Andesite?				
				85.04 to 85.45				
				Fault, gouge	65°/90°			
				85.97 to 86.63				
				Fault, gouge, intensly sheared	85°			
				89.76 to 89.81				
				Fault, gouge	85°			

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
89.91 to	Andesite	medium to	medium	Thick bedded; massive; weak to		moderate deep pal chlorite on	1-2% disseminated, patchy	
93.50	Crystal lithic	dark green	grained	moderately foliated; <5% glassy to		foliation surfaces; weak	medium grained pyrite	
	Tuff			epidote altered feldspar crystals to		pervasive epidote alteration		
	(And XLT)			4mm; 1-2% epidote altered lithic				
				fragments to 3mm; interval				
				contains minor amount of felsic				
				interbeds, possibly dykes.				
93.50 to	Intermediate	light to	fine to	Thick bedded; moderately		moderate to well developed	3 to 5% pyrite, predominately	very similar to
109.28	Quartz	medium	medium	foliated; 2% quartz eyes 4mm		sericite and minor chlorite on	stringers, rare lone chalcopyrite	core from Dusty
	Porphyry	grey	grained	to 3mm; 3 to 5% white to siliceous		foliation surfaces.		by the creek.
	Lapilli Tuff			felsic grains to 2mm; <1% medium				
				green to black lithic fragments;				
	(PPLaT)			these are generally flattened to				
				chlorite wisps; felsic fragments				
				are bleached white and siliceous, very				
				fine grained with minor quartz				
				eyes to 1mm; frags range up to 5cm;				
				99.03 to 99.05 Fault	70°			
				93.50 to 100.50				
				<5% felsic lapilli				
				100.50 to 109.28				
				5 to 10% lapilli fragments				
				108.40 to 108.57				
				Andesite Tuff?				

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
109.28				108.57 to 109.28:		—		
				interval may be a bracked fault				
				structure				
109.28 to	Andesitic Lithic	medium to	fine to	Moderately bedded; moderately		moderate to well developed	2% disseminated to stringers	
116.85	to Ash Tuff	dark green	medium	foliated; generally quite		chlorite on foliation	of fine to medium grained	
			grained	equigranular in appearance;		surfaces	pyrite	
	(AbLT)			Interval contains interbedded				
				Andesitic to Ash and Intermediate				
				Lithic Tuffs;				
				113.35 to 113.39				
				Fault, gouge	65°			
116.85 to	Felsic Lithic	light to	medium	Thick bedded, massive, moderately		weakly developed sericite	2-3% disseminated pyrite, local	
128.56	Tuff	medium	grained	foliated; 5 to 10% felsic fragments		on foliation surfaces;	stringers; trace locally of	
		grey		or granules to 2mm; 2 to 3%			chalcopyrite and sphalerite;	
	(FLT)			white to glassy feldspar crystals				
				to ½ mm; generally broken; 1 to				
30				2% medium green lithic fragments				
				to 2mm;				
				118.30 to 118.60			10% pyritic stringers	

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
128.56	Andesite	medium	medium	Thick bedded, moderately foliated		weak to moderately developed	2-3% fine grained disseminated	
131.63	Lithic Tuff	green	grained	very gray-green look in appearance,		chlorite on foliation surfaces;	pyrite.	
				1-2% epidot altered lithic		weak pervasive epidote alteration.		
	(AndLT)			fragments to 1cm, very				
				[illegible] bedding				
131.63	Felsic Lithic	light to	fine to	Very Thin to moderately bedded; weak		weakly developed sericite on	3 to 5% disseminated pyrite; local	
146.34	Tuff	medium	medium	to moderately foliated; 10%		foliation surfaces	stringers.	
		grey	grained	felsic grains up to 1mm; 1 to				
	(FLT)			3% chlorite altered feldspar				
				crystals to 1mm;				
				131.63 to 135.04				
				minor interbedded chert or				
				silicified Felsic Ash.				
				135.04 to 136.45				
				5 to 10% interbedded chert				
				135.69 to 135.695				
				Fault, hair line, truncates chert				
				Beds.	58°			
				136.05 CAB	70°			
				136.45 to 138.70				
				Felsic LaT; 40% aphanitic hornblende				
				white felsic fragments to 4cm				

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				in a feldspar porphyritic matrix				
				138.70 to 140.93				
				minor chert, interbedded lapilli units				
				and felsic tuff,				
				bedding highly contorted;				
				140.93 to 146.34				
				<Diorite> Karmutsen				
				dark green, coarse grained feldspar				
				porphyritic.				
146.34 to	Quartz Feldspar	light gray	coarse	Thick bedded, massive, weakly		Fragments bleached and silicified,	1-2% disseminated patchy and	
152.05	Porphyry	weak green	grained	foliated, felsic fragments are bleached		weakly developed sericite on	stringers of fine to medium	
	Lapilli Tuff	cast		white and silicified fragments, phenos		foliation surfaces.	grained pyrite, rare trace chalcopyrite	
				contain minor quartz eyes to 3mm,				
	(Felsic LuT)			and rare feldspars to 1/2mm, groundmass				
				has a greenish cast and all				
				contains 5% white clay altered				
				feldspar crystals to 1mm, also				
				2-3% quartz eyes to 3mm.				
152.05 to	Andesite	medium	medium	Thick bedded, massive, weakly		moderately developed	3 to 5% disseminated to	
	Crystal Lithic	green	grained	foliated, very granular in		chlorite on foliation surfaces,	patchy and minor stringers	
	Tuff	grey		appearance; 3 to 5% glassy to		weak pervasive epidote	of medium to coarse grained	
				predominately epidote altered		alteration	pyrite, locally visible minor	
	(And XLT)			feldspar crystals to 1mm, 10% light			chalcopyrite	
				green epidote altered lithic				

HOLE NO 86-100

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				fragments to 2mm; 5% quartz				
				granules to 1mm;				
				152.05 to 155.07			10% pyrite stringers, medium to	
							coarse grained; locally with trace	
							chalcopyrite and sphalerite	
				160.17 to 160.75		Intense epidote alteration		
				165.06 to 168.70		intense epidote alteration and		
						bleached		
				177.90 to 206.35			1-2% pyrite, disseminated and	
							stringers	
				185.07 to 185.55				
				Fault; sheared, minor gouge	40°			
				191.77 to 192.50		strongly silicified		
				195.05 to 195.55				
				Felsic Tuff; Dike?				
				196.35 CAF	60°			

HOLE NO 86-100

86-101 in U 262 (1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 6.70	OB							
6.70 to 19.14	Felsic Tuff (FTuff)	light to medium grey	medium grained	Thick bedded; weak to moderately foliated; very granular in appearance; local quartz eyes to 2mm; locally 3 to 5% white cyanoids fragments? feldspar x's? to 3mm; rare well defined felsic fragments to 4cm; local lightgreenish grey fragments to 2mm		weak sericite development on foliation surfaces, locally chloritic especially in the interval between 6.70 to 12.00m;	2-3% pyrite; fine to medium grained; patches, local stringers; local trace chalcopyrite; locally sulphides are concentrated in what may be fragments up to 4cm in size, these can contain up to 50% sulphides;	locally oxidized; "Possible LcT"
19.14 33.31	Felsic Tuff (FTuff)	light grey	medium grained	Thick bedded; moderately foliated; weak granular appearance; rare quartz eyes to 2mm; locally the interval may contain more strongly bleached felsic fragments flattened in the foliation plane these are very indistinct;		moderate to well developed sericite on foliation surfaces; Bleached;	1-3% pyrite, fine to medium grained; disseminated and in stringers; local trace chalcopyrite	
				32.98 to 33.31 Fault; intensely sheared; abundant gouge				
33.31 47.60	Felsic Tuff to Ash (FTuff-Ash)	white	fine grained	Thick bedded; moderately foliated; this interval is moderately sheared		intense sericite development on foliation surfaces; intensely bleached;	33.31 to 38.70 3% pyrite locally to 10%, trace to 1% chalcopyrite; predominately stringers	
				33.31 to 33.91 intensely sheared, abundant gouge.				

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(2)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				38.94 to		—	38.70 to 47.60	
							1% pyrite, local trace chalcopyrite	
				38.94 to 41.04 Fault; intensely				
				sheared, 40% gouge				
				44.30 to 47.60, Fault; intensely				
				sheared; 90% gouge;				
				52% recovery between 44.80 to				
				47.85;				
47.60 to	(Diorite)	medium	fine to	Thick; massive; moderate to		strongly calcareous; common		
56.99		green	medium	strong shear texture throughout		hematite stringers;		
			grained	local gouge seams				
56.99	Felsic Tuff	medium	fine to	Thick bedded; moderately foliated;		weak sericite development	1-2% pyrite; fine to medium	
60.04	to Ash	grey	medium			on foliation surfaces;	grained; local patches and	
			grained				stringers; trace chalcopyrite;	
	(F Tuff to							
	Ash)							
60.04 to	Andesite	medium to	medium	Thick bedded; moderately foliated		weak to moderate chlorite		
→	Lithic Tuff	dark	grained	very granular in appearance;		development on foliation		
		green		abundant lithic fragments to		surfaces.		
	(Andlt)			4 mm;				

HOLE NO. 86-101

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ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14433	14.57	16.20																					
14434	16.20	17.79																					
14435	17.79	19.14																					
14436	58.10	60.04																					

HOLE NO 86-101

PAGE

ZIPPY PRINT - BRIDGEPORT RICHMOND

DRILL HOLE RECORD

PROJECT NAME : LARA	DATE STARTED (M/D/Y):
HOLE NUMBER : 86-102	DATE COMPLETED (M/D/Y):
LOCATION :	DATE LOGGED (M/D/Y):
PROJECT NUMBER :	UNITS (F/M) : M
CLAIM NUMBER :	
PLOTTING COORDS — GRID : IDEAL	ALTERNATE COORDS — GRID :
NORTH : 113+44 N	NORTH : _____+___
EAST : 70+86 W	EAST : _____+___
ELEV : 730.00 m	ELEV : _____.___
COLLAR BRNG — GRID : ___° __' __"	COLLAR SURVEY (Y/N) :
ASTRONOMIC : 203° __' __"	RQD LOG (Y/N) :
COLLAR DIP : -48° __' __"	PULSE EM SURVEY (Y/N):
CONTRACTOR :	LOGGED BY :
CORE STORAGE :	START DEPTH: 0.00
CASING :	FINAL DEPTH: 160.63
PLUGGED (Y/N) :	
HOLE SIZE :	
PURPOSE/COMMENTS :	

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS
76.20	A	~	-47½°		OK
130.10	A	~	-48°		OK

HOLE NO. _____ LOGGED BY _____

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
11.90	<OB>							
11.90 to	<Diorite>	dark green	coarse	Thick, massive; weakly foliated;				Karmutsen
78.30			grained	feldspar porphyritic.				
				13.37 to 14.50				
				intensely weathered and oxidized				
				24.10 to 24.50				
				rubbly section				
				27.86 to 32.20				
				fine to medium grained, moderately		strongly epidized		
				oxidized, rubbly				
				36.70 to 37.60				
				very rubbly				
				50.15 to 51.80				
				very rubbly				
				51.80 to 56.00				
				fine to medium grained, abundant quartz				
				carbonate veins				
				72.00 to 78.00		patchy silicification and epidote		
				fine to medium grained phase		alteration		

HOLE NO 86-102

98.6 – 102.6

131.60 to 134.60 And

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				78.00 to 78.30				
				quartz vein				
78.30 to	Quartz	white	medium	Thick bedded; massive; weakly		very well developed sericite on	trace disseminated pyrite.	"Blitzed"
98.43	Porphyry Felsic		grained	foliated; 5 to 7% quartz eyes to 8mm;		foliation surfaces; bleached; locally		
	Tuff			all other textures obscured by		silicified		
				alteration; possible 1-2% obscured feldspar to 1mm;				
	(QP Tuff)							
				80.57 to 82.20				
				locally sheared, core rubbly				
				87.85 to 88.40				
				30% quartz veins				
				88.10 to 91.10		40% orange iron carbonate staining		
				91.10 to 95.20		60% orange iron carbonate staining		
98.43 to	Quartz Porphyry	light greyish	medium	Thick bedded; massive; weakly		moderate to well developed	trace disseminated pyrite.	a less altered version of the above
108.20	Felsic Tuff	white to	grained	foliated; 5 to 10% quartz eyes to 8mm;		sericite on foliation surfaces;		interval; lower contact not well
		medium		other textures generally obscured, may		bleached, locally silicified.		defined.
	(QP Tuff)	grey; with		be 1-2% poorly defined feldspar				
		green cast		crystals to 1mm; It's possible that				
				there are very indistinct Lapilli bands.				
				99.78 to 103.00			1-2% patchy, medium grained	
							pyrite	

HOLE NO 86-102

PAGE 2

98 to 101.60 132.60 to 134.60

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
108.20 to	Felsic Quartz	very light	coarse	Thick bedded; massive; weakly		moderate to well developed	trace disseminated pyrite	Upper contact not well
129.58	Porphyry	grey to	grained	foliated; Felsic fragments are		sericite on foliation		defined;
	Lapilli Tuff	medium		general; indistinct; but many		surfaces; bleached; locally		
		grey		compose up to 50% of the interval		silicified		
	[Felsic]			to a maximum size of 6cm;				
				Frags are bleached white, aphanitic				
				and siliceous; they contain 1-2%				
				quartz eyes to 3mm; all other				
				textures generally obscured;				
				groundmass contains a minor amount				
				of very obscure feldspar crystals to				
				1mm, and 3 to 5% sericite eyes				
				to 5mm;				
				110.54 to 110.70				
				Fault, sheared and gouge				
				115.20 to 116.00			1-2% disseminated, patchy pyrite	
				116.37 to 118.20				
				5 to 10% dark grey to grey green			3 to 5% pyrite; patches, stringers	
				lithic fragments 8mm x 3mm				
				118.20 to 119.53		minor chlorite development on	5% disseminated, patchy pyrite,	
						foliation surfaces	minor stringers, trace chalcopyrite	

HOLE NO 86-102

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				119.53 to 121.00			1% disseminated pyrite	
				121.00 to 124.04			1-2% disseminated, patchy pyrite; minor stringers	
				123.65 to 124.05		strongly bleached, minor shearing		
				124.04 to 129.58 groundmass more light green in colour		minor chlorite developed on foliation surfaces		
129.58 to 140.05	Andesite Lithic Tuff (Ash tuff)	medium to dark green	medium grained	Thick bedded; massive; weak to moderately foliated; very granular in appearance; 5 to 7% quartz grains to 2mm; 3% chloritized altered to weakly epidote altered feldspar crystals to ½mm;		moderate developed chlorite on foliation surfaces; weak pervasive epidote alteration	3 to 5% pyrite, disseminated, patchy and minor stringers; local trace chalcopyrite	
				129.58 to 130.90 more epidotized lithic fragments to 1cm				
				129.58 to 129.60 Fault, gouge	80°			
				137.90 to 138.70 Andesite Ash to lithic tuff			5 to 7% pyrite, disseminated, patchy and in stringers, local trace chalcopyrite;	

HOLE NO. 86-102

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				138.70 to 139.70				
				Andesite Ash to Lithic Tuff with			5 to 7% pyrite, disseminated,	
				10% finely interbedded chert			patchy and in stringers, minor	
							chalcopyrite; Cherts contain	
							minor fine grained pyrite.	
				138.85 CAb	80°			
138.05 to				139.70 to 140.05			minor pyrite	
140.05 to	Felsic Lapilli	Light to	coarse	Thick bedded, massive, weakly foliated		weak to moderately developed	trace disseminated pyrite	
146.30	Tuff;	medium	grained	Felsic fragments 30% to a maximum		sericite and minor chlorite on		
		grey, weak		size of 5cm, bleached white and		foliation surfaces;		
	(FLOT)	green cast		siliceous, generally aphanitic but				
				contain minor quartz eyes to 1mm.				
				Also 15% medium green lithic				
				fragments to 3mm, groundmass				
				has a green cast and contains				
				minor quartz eyes to 2mm;				
				minor chlorite altered to ghosty feldspar				
				crystals to 4mm;				
				145.20 to 145.30				
				Fault; gouge	50°			

HOLE NO 86-102

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
146.30 to	Andesite	medium to	fine to	Thick bedded; weakly foliated;		moderate to well developed	3-5% disseminated, patchy pyrite	
154.85	Lithic Tuff	dark green	medium	very equigranular in appearance,		chlorite on foliation planes;	minor stringers; local trace	
			grained	5% light green epidote altered lithic			chalcopyrite	
	(AndLT)			fragments 3mm to 2cm;				
				146.30 to 147.70		moderate to strong pervasive		
						epidote alteration;		
				153.10 to 154.00				
				80% quartz veins				
154.85 to	Felsic Lithic	light to	medium	Thick bedded; massive; weakly		moderate developed sericite and	2-3% disseminated, patchy fine	Possible lapilli Unit.
160.63	Tuff	medium	grained	foliated; minor quartz eyes to		minor chlorite on foliation	to medium grained pyrite	
		grey; weak		1mm; 1% white felsic fragments to		surfaces; patchy bleaching		
	(FTuff)	greencast		4mm; 1-2% medium grey		and silicification		
				green lithic fragments to 3mm;				
				Possible 1-2% feldspars to ½mm;				
				157.19 to 157.49				
				Fault;	40°			
				160.00 to 160.60				
				well defined felsic lapilli fragments				
				interval very rubbly with minor				
				gouge;				
160.63	(EOH)							

HOLE NO 86-107

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	~~P_2O_5~~ PAT	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
17158	8440	8740	73.25	12.33	2.47	0.49	4.49	2.65	0.61	0.02	0.21	0.080	5	6	17	.4	5					

Hole No. _____ Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ™ — BRIDGEPORT, RICHMOND

LARA DRILL RESULTS

DDH-86-R102

ANALYSIS CODE	GEOLOGIC DESCRIPTION	UNIT NUMBER	TAG NUMBER	START METERS	FINISH METERS	INTERVAL METERS	HORIZONTAL THICKNESS	BA GRADE PPM	CU GRADE PPM	PB GRADE PPM	ZN GRADE PPM	AG GRADE PPM	AU GRADE PPB	SPECIFIC GRAVITY	TRUE THICKNESS
G2	1QELT	DDH86-99-R102	3-1	88.10	89.35	1.25			1	-2	15	-0.2	-5		
G2	1QELT	DDH86-99-R102	3-2	89.35	91.10	1.75			3	-2	13	-0.2	-5		
G2	1QELT	DDH86-99-R102	3-4	94.15	95.20	1.05			-1	3	13	-0.2	-5		
G2	1QELT	DDH86-99-R102	9-2	115.30	116.00	0.70			32	2	54	-0.2	5		
G2	2LT	DDH86-99-R102	10	116.00	118.10	2.10			12	2	42	-0.2	-5		
G2	2QLT	DDH86-99-R102	11	118.10	119.58	1.48			346	4	84	-0.2	-5		
G2	1QELT	DDH86-99-R102	12	119.58	121.00	1.42			1	-2	13	-0.2	-5		
G2	2LDT	DDH86-99-R102	16-1	137.90	138.70	0.80			4220	2	157	0.5	90		
G2	2LDT	DDH86-99-R102	16-2	138.70	139.70	1.00			2950	-2	66	0.4	45		

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in W262. (1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	(OB)							
5.64								
5.64 to	Felsic Tuff	light to	medium	Thick bedded, weak to moderately		weak to moderate sericite	1-2% pyrite fine to medium	local oxidization
	(FTuff)	medium	grained	foliated; very granular in appearance		development on foliation	grained, disseminated, patchy	"Possible LoT"
		grey		local quartz eyes to 3mm, 5% white		surfaces, minor chlorite	and in stringers; local chalcopyrite.	
				granular fragments? feldspar xls?				
				to 4mm; 15% greenish grey				
				lithic fragments to 3mm, local				
				indistinct felsic lapilli, bleached,				
				weakly siliceous to 3cm;				
				13.08 to 13.38 moderate to strongly				
				sheared;				
				23.06 to 24.45 90% quartz veins				
24.45 to	Felsic Tuff	light to	medium	Thick bedded; weak to moderately		weak to moderate sericite	1% pyrite, fine to medium grained;	
30.35	(FTuff)	medium	grained	foliated; rare quartz eyes to 2mm;		development on foliation	predominately disseminated, rare	
		grey		very indistinct felsic lapilli		surfaces, minor chlorite;	trace chalcopyrite.	
				weakly bleached to 4cm;		the interval becomes more		
						strongly bleached with		
				30.20 to 30.35 intensely sheared		proximity to the shear		
				90% gouge.		structure;		

HOLE NO 86-104

PAGE (1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
30.35 to 61.22	Felsic Ash to Tuff	white	fine grained	Thick bedded, moderate to locally strongly foliated; the entire interval is weak to moderately sheared.		intense sericite development on foliation surfaces; intensly bleached	1-2% pyrite; fine to medium grained; disseminated, predominately stringers; common chalcopyrite;	
	(F Ash-Tuff)							
				32.85 to 32.93 intensly sheared 80% gouge				
				35.31 to 36.60 Fault; intensly sheared; abundant gouge and milled rock				
				36.60 to 38.70 Fault; intensly sheared intermediate ash; abundant gouge.				
				38.70 to 45.30 (Fault) intensly sheared felsics, 60 to 80% gouge				
				45.30 to 53.04 (Diorite) very strongly sheared; core very broken and rubbly;				
				53.04 to 56.84 Intermediate Ash, locaby very finely bedded,	84°			

86-104

(3)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				56.84 to 61.22			3-5% pyrite; fine to medium grained; predominately stringers, minor chalcopyrite;	
				Thin to Moderately bedded				
61.22 to 64.43	Intermediate Ash to Tuff	light greenish grey	fine to medium grained	~~Thick~~ bedded; moderate to strongly foliated;		moderate to well developed chlorite, sericite on foliation surfaces;	1% fine to medium grained pyrite, trace chalcopyrite	
	(Int Ash-Tuff)							
And.								
64.43 to 67.44	Andesite Ash to Lithic Tuff	medium green	fine grained	Thick bedded, weak to moderately foliated;		moderate to well developed chlorite on foliation surfaces	1-2% pyrite; fine to medium grained; disseminated, patchy local stringers; trace chalcopyrite	
	(And Ash to LT)							
67.44 to 73.07	Andesite Lithic Tuff	medium green	medium grained	Thick bedded, massive; weak to moderately foliated; very granular in appearance; 5% epidotized lithic fragments and or feldspar xls to 1 mm to 4 mm;		weak chlorite development on foliation surfaces.	1% pyrite; fine to medium grained; disseminated; patchy local stringers	
	(And LT)							
73.07 to →	Andesite Lithic to Lapilli Tuff	medium green	medium to coarse grained	Thick bedded; massive; weakly foliated.		very weak chlorite development on foliation surfaces	1% pyrite	
	(And LT-LaT)							

HOLE NO 86-104

PAGE (3)

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ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
	~~60.82~~	~~62.65~~																					
14438	62.65	64.43																					

HOLE NO 86-104

PAGE

ZIPPY PRINT - BRIDGEPORT RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14437	61.22	62.65																				

Hole No. 86-104. Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

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DRILL HOLE RECORD

PROJECT NAME : LARA	DATE STARTED (M/D/Y):
HOLE NUMBER : 86-105	DATE COMPLETED (M/D/Y):
LOCATION :	DATE LOGGED (M/D/Y):
PROJECT NUMBER :	UNITS (F/M) : M
CLAIM NUMBER :	

PLOTTING COORDS		ALTERNATE COORDS	
	GRID : IMEAL		GRID :
	NORTH : 112+34 N		NORTH : _____+___
	EAST : 68+73W		EAST : _____+___
	ELEV : 706.00 m		ELEV : _____.___

COLLAR BRNG		
	GRID : ___° __' __"	COLLAR SURVEY (Y/N) :
	ASTRONOMIC : 203° __' __"	RQD LOG (Y/N) :
	COLLAR DIP : -48° __' __"	PULSE EM SURVEY (Y/N):

CONTRACTOR :	LOGGED BY :
CORE STORAGE :	START DEPTH: 0.00
CASING :	FINAL DEPTH: 71.01
PLUGGED (Y/N) :	
HOLE SIZE :	

PURPOSE/COMMENTS :

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS
70.00	A	~	-47½		OK

HOLE NO. _____ LOGGED BY _____

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 7.50	(OB)							
7.50 to 15.10	Felsic LaT (FLaT)	light grey, weak green cast	medium to coarse grained	Thick bedded, massive, weakly foliated; fragments are bleached white and silicified; internal textures hard to distinguish; fragments are 2mm to 3cm, and make up 3 to 5% of the interval; matrix contains 3 to 5% quartz eyes to 2mm; 1% light green chlorite fragments to 1mm;		weak to moderately developed sericite on foliation surfaces;	1-2% medium grained pyrite; predominately in stringers;	
				9.92 to 10.25 Fault; abundant gouge	35°			
				11.10 to 11.11 Fault;	30°			
				13.84 to 13.93 Fault;	60°			
				15.02 to 15.10 Fault	80°			

HOLE NO 86-105

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
15.10 to	Felsic Tuff	light gray	fine to	Thick bedded, moderately foliated,		moderate to well developed	1-2% pyritic stringers	
20.90	(FTuff)	to white	medium	<1% quartz eyes to 1mm, possibly a		sericite on foliation surfaces, locally		
			grained,	small percentage of feldspar crystals,		bleached and silicified		
				generally indistinct to 1mm,				
				16.56 to 16.58 Fault	75°			
				17.85 CAF	84°			
				18.35 to 19.21			2-3% pyritic stringers, trace sphalerite,	
							trace chalcopyrite, stringers to 3cm,	
				18.45 to 18.55				
				Fault, abundant gouge				
20.90 to	(Mafic)	medium	medium	Thick, weak to moderately foliated,				
26.03		green	grained,	minor Felsic tuff screens,				
				locally minor shearing				
26.03 to	(Fault)			intensely sheared felsic material,			local abundant pyrite	
26.52				abundant gouge	65°			
26.52 to	Felsic Tuff	very light	fine to	Thick bedded, moderately foliated		moderate to well developed	2-3% pyrite patchy, 2-1m stringers,	Possible fragmental
38.28	(FTuff)	gray	medium	rare quartz eyes to 1mm, possibly a		sericite on foliation surfaces,		
			grained	2-3% of diffuse feldspar		patchy bleaching and silicification		
				crystals, Rare felsic ash fragments to				
				2cm,				
				30.55 to 30.58 Fault	90°			
				31.80 to 31.83				
				Fault,	85°			

HOLE NO 86-105

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
38.28 to 58.08 56.58	Intermediate Tuff <Int Tuff>	medium grey; weak green cast	fine to medium grained	Thick bedded; weak to moderately foliated; very equigranular in nature; rare quartz eyes to 5mm;		moderately developed sericite and chlorite on foliation surfaces.	2-3% disseminated to patchy fine to medium grained Pyrite; minor stringers.	
				38.28 to 38.70 foliation highly contorted;				
				40.45 to 40.52 Fault, gouge	90°			
				40.52 to 41.25 Felsic Ash to LaT, bleached siliceous frags?				
				41.75 to 41.78 Fault; gouge;	70°			
				41.78 to 41.97 Felsic Ash to LaT, bleached siliceous frags?				
				41.97 to 42.08 healed Fault structure				
				42.60 to 43.26			3 to 5% pyrite stringers, trace chalcopyrite and sphalerite;	may have to — 15'
				43.13 to 43.26 minor diorite dyke				

HOLE NO 86-105

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				43.26 to 44.42		—	30% pyritic stringers, medium to coarse grained; trace chalcopyrite and sphalerite;	
				44.42 to 44.70 Dyke; mafic				
				44.70 to 45.47		patchy silicification	5% pyrite, disseminated, patchy and stringers	
				45.47 to 47.85		Patchy silicification	3 to 5% pyritic stringers	only 1.20m core recovered in this interval; Footage blocks may be wrong only 5' versus 10'
				47.85 to 50.90		Patchy silicification	3 to 5% pyritic stringers, trace chalcopyrite	only 1.41 m of core recovered in this interval; Footage blocks may be wrong only 5' versus 10'
								block 44.80 ok 47.85 ; -5' 50.90 ; -5' 53.94 ; -5'

HOLE NO 86-105

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
58.08	(Diorite)	Dark	medium	Thick, massive; feldspar porphyritic;		—		measurements should have
70.01		green	to coarse	hornblende.				15' subtracted
			grained					

HOLE NO 86-105

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
17151	50.90	53.90	53.63	15.96	0.87	7.30	3.41	2.44	8.78	0.22	0.61	0.120	116	117	44	1.40	5-					
	49.40	52.4																				
	- 15 from each of these																					

Hole No. _____ Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

50.80
47.85
2.95

47.85
45.47
2.38

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
13626	44.70	45.47														525	97	18	1.0	40			
13627	45.47	47.85														164	448	158	1.0	22			
13628	47.85	50.80														244	82	28	0.70	4			

HOLE NO 86-105

PAGE

ZIPPY PRINT - BRISTOL PORT RICHMOND

LARA DRILL RESULTS

DDH-86-R105

ANALYSIS CODE	GEOLOGIC DESCRIPTION	UNIT NUMBER	TAG NUMBER	START METERS	FINISH METERS	INTERVAL METERS	HORIZONTAL THICKNESS	BA GRADE PPM	CU GRADE PPM	PB GRADE PPM	ZN GRADE PPM	AG GRADE PPM	AU GRADE PPB	SPECIFIC GRAVITY	TRUE THICKNESS
G2	1QELT	DDH86-R105 3-2		18.28	19.29	1.01			389	3	43	0.3	10		
G2	1QELT	DDH86-R105 3-3		19.29	20.90	1.61			610	-2	48	0.3	15		
G2	1QELT	DDH86-R105 5-1		35.23	36.23	1.00			14	4	77	-0.2	10		
G2	1QELT	DDH86-R105 5-2		36.23	37.28	1.05			8	2	85	-0.2	-5		
G2	1QELT	DDH86-R105 5-3		37.28	38.28	1.00			6	10	92	0.3	-5		
G2	1QELT	DDH86-R105 9-2		42.60	43.26	0.66			372	7	121	0.2	15		
G2	1QELT	DDH86-R105 9-3		43.26	44.42	1.16			745	14	120	0.4	40		

DRILL HOLE RECORD

Relog Dec 28/89

PROJECT NAME : LARA	DATE STARTED (M/D/Y):
HOLE NUMBER : 86-106	DATE COMPLETED (M/D/Y):
LOCATION :	DATE LOGGED (M/D/Y):
PROJECT NUMBER :	UNITS (F/M) : M
CLAIM NUMBER :	

PLOTTING COORDS		ALTERNATE COORDS	
	GRID : IDEAL		GRID :
	NORTH : 113+30 N		NORTH : _____+___
	EAST : 68+80 W		EAST : _____+___
	ELEV : 720.00 m		ELEV : _____.___

COLLAR BRNG		
	GRID : ___° __' __"	COLLAR SURVEY (Y/N) :
	ASTRONOMIC : 203 __' __"	RQD LOG (Y/N) :
	COLLAR DIP : -48° __' __"	PULSE EM SURVEY (Y/N):

CONTRACTOR :	LOGGED BY :
CORE STORAGE :	START DEPTH: 0.00
CASING :	FINAL DEPTH: 130.15
PLUGGED (Y/N) :	
HOLE SIZE :	

PURPOSE/COMMENTS :

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS
61.00	A	~	-44½		
130.00	A	~	-48½		

HOLE NO. _____ LOGGED BY _____

86 - 106

①

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 3.20	<OB>							
3.20 to 26.10	<Diorite>	dark green	medium to coarse grained	Thick; massive; feldspar porphyritic; equigranular; local rubbly sections.				
				26.10 Contact	70°			
26.10 to 36.10	Quartz Porphyry Felsic Tuff <QP Tuff>	white	medium grained	Thick bedded; massive; weakly foliated; 3-5% quartz eyes to 6mm; minor amount of very obscure feldspar crystals;		Well developed sericite on foliation surfaces; minor chlorite; patchy silicification and carbonate alteration; bleached; local iron carbonate staining	trace disseminated pyrite	"Blitzed"
				28.80 to 28.95 Fault strongly sheared;				
36.10 to 47.95	Intermediate Quartz Porphyry Tuff <Int QP Tuff>	light to medium grey; weak green cast	medium grained	Thick bedded; massive; weak to moderately foliated; 3 to 5% quartz eyes to 6mm; minor amount of very obscure feldspar crystals		well developed sericite and minor chlorite on foliation surfaces; patchy silicification and bleaching; minor iron carbonate staining; minor carbonate staining	trace disseminated pyrite	bleaching and silicification gives a weak fragmental look; possibly a more unaltered version of the above unit;
				4.30 CAF	88°			

HOLE NO 86-106

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
47.95 to	Andesite Lapilli	medium to	coarse	Moderately bedded; moderately foliated;		moderate to well developed	3-5% disseminated, patchy medium	
49.72.	Tuff	dark green	grained	2% bubble felsic fragments 3mm to		chlorite on foliation surfaces	grained pyrite	
				4cm; 3-5% dark green to black,		weak pervasive epidote alteration;		
	(AndLaT)			lithic fragments to 3mm;				
				3% light green epidote altered				
				lithic fragments to 1½cm;				
49.72 to	Rhyolite Quartz	light to	coarse	Thick bedded; massive; weakly		moderate to locally well	trace disseminated pyrite	interval has been weakly
58.80	Porphyry Lapilli	medium	grained	foliated; fragments are bleached		developed sericite on foliation		brecciated
	Tuff	grey		white and very siliceous; internal		surfaces; felsic fragments		
	(RPLaT)			textures are obscured, minor		bleached and silicified.		
				feldspars are still visible				
				through; locally boundaries to				
				fragments are not well				
				defined; interval may contain				
				50% fragments; groundmass				
				contains 3% ghosty to epidote				
				altered feldspar crystals to				
				1mm; 2-3% quartz eyes				
				to 4mm;				
				53.70 to 53.80				
				Fault a	15°			
				57.30 to 57.35				
				Fault	35°			
				58.78 to 58.80	80°			

HOLE NO 86-106 Fault

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
58.80 to	Andesite	medium	medium	Thick bedded moderately foliated,		well developed dark green to	2-3% disseminated, patchy fine to	
62.62	Lithic Tuff	green	grained	5 to 10% light green epidote altered		black chlorite on foliation	medium grained pyrite	
				lithic fragments to 2mm, a minor		surfaces.		
	<AndLT>			amount of these may be feldspars				
				61.60 to 61.63				
				Fault	90°			
				61.70 to 61.80				
				Fault				
				61.87 to 61.90	65°			
				Fault				
				62.03 to 62.07				
				Fault				
				62.54 to 62.57				
				Fault	85°			
62.62 to	Felsic Lapilli	light grey	coarse	Thick bedded, massive, weakly		weakly developed sericite on	1-3% pyrite stringers with	
86.00	Tuff	weak green	grained	foliated, Felsic fragments are		foliation surfaces, felsic	minor chalcopyrite,	
		cast		bleached white and very siliceous,		fragments are bleached		
	<FLaT>			internal textures are generally		and silicified,		
				obscured, locally feldspars are				
				visable, boundaries to most				
				fragments are not well				
				defined, fragments may				

HOLE NO 86-106

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				make up 60% of the interval;		—		
				matrix has 3 to 5% white to glassy to clay altered				
				feldspar crystals to 1mm, also				
				1% light to medium green lithic				
				fragments to 2mm; 2% quartz eyes				
				1mm to 3mm; matrix has a light to medium green colour				
				62.76 to 62.78				
				Fault	65°			
				70.55 to 83.46				
				interval contains 10 to 20% white felsic			trace disseminated pyrite, rare	
				fragments; much more feldspar			stringers	
				porphyritic in nature				
				83.46 to 84.37				
				Diorite; medium to dark green,		strongly calcareous		
				fine grained				
				80.34 to 80.35				
				Fault	65°		fine grained	
86.00	Felsic Tuff	white to	fine	Thick bedded, weakly foliated;		silicified; minor bleaching;	1% disseminated pyrite; 1-2%	interval has been weakly
119.18	(F Tuff)	light	grained	2% indistinct feldspar crystal to		moderate developed sericite	medium to coarse grained pyrite	brecciated
		grey		1mm; rare quartz eyes to 1mm;			in stringers	
				very equigranular in appearance;				

HOLE NO 86-106

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				92.20 to 92.28		—		
				Fault	85°			
				93.20 to 94.20			5 to 7% pyrite stringers	
				abundant gouge zones	40° to 90°			
				94.20 to 96.03				
				abundant gouge zones			5 to 7% pyrite stringers, rare trace sphalerite	
				96.03 to 96.70				
				Fault; intensely sheared, abundant gouge				
				96.30 to 99.68			5% pyrite stringers;	
				abundant gouge and shear zones	80°			
				99.68	15°			
				99.68 to 101.17			5% pyrite stringers, trace sphalerite in the pyrite stringers	
				99.68 to 99.79				
				Fault	65°			
				101.17 to 101.79			5% pyrite stringers with trace chalcopyrite, galena; also 1/2% sphalerite, light brown to tan in colour;	

HOLE NO 86-106

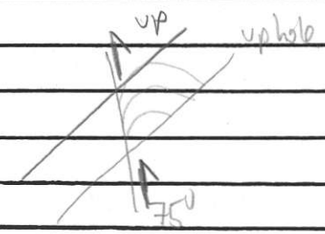
FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				101.79 to 102.00		—		
				Felsic Dyke? buff green colour				
				102.00 to 119.18			1% to locally 3% pyrite stringers, loc trace sphalerite	
				interval is light to medium grey in colour, less altered, and fewer felsic fragments				
				102.86 to 102.91				
				Fault	90°			
				103.26 to 103.28				
				Fault	65°			
				103.86 to 103.90				
				Fault	85°			
				104.34 to 104.36				
				Fault	75			
				105.85 to 105.94				
				Felsic Dyke.				
				109.95 to 109.96				
				Fault	85°			
				112.92 to 113.46				
				Fault	85°			

HOLE NO 86-106

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				119.91 to 119.18		—		
				abundant diorite intrusions				
				and faults				
119.18 to	(Diorite)	medium to	course	Thick, massive, weakly foliated,				
130.14		dark	grained	feldspar porphyritic,				
		green						
130.14	(EOH)							

HOLE NO 86-106

W262

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	(OB)							
6.70								
6.70 to	Intermediate	light gray	fine to	Thin to moderately bedded; moderately		well developed, sericite minor	minor disseminated pyrite, rare	moderate to strongly oxidized
33.69	Lithic Tuff to	weak green	medium	foliated;		chlorite on foliation surfaces	stringers; locally finely bedded	
	Ash	cast	grained					
	(IntLT-ASH)			6.70 to 9.70				
				20%-30% finely interbedded felsic ash				
				and chert;				
				CAB 6.85	83°			
				CAB 7.44	55°			
				CAB 8.55	40°			
				12.00 to 14.56				
				10 to 20% interbedded felsic ash				
				and minor chert				
				14.10 to 14.11				
				Thrust Fault	75°			
								

HOLE NO 86-107

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				14.56 to 20.42 (Diorite)				
				20.42 to 23.46				
				strongly sheared, local abundant				
				gouge				
				CAB at 23.56	44°			
				26.40 to 26.60 Fault				
				strongly sheared abundant gouge				
				28.30 to 31.08 Fault				
				locally intensely sheared, abundant				
				gouge; minor felsic ash interbeds				
				31.08 to 33.69				
				minor chert + ash interbeds;			5% pyrite disseminated, stringers	foliation contorted
							locally bedded;	
33.69	(Diorite)	medium	fine to			Strongly Calcareous		
41.45		dark	medium					
		green	grained					
41.45	Intermediate	medium	medium	moderate to strongly foliated,		moderate to well developed	1-2% pyrite, disseminated,	foliation locally contorted
56.06	Tuff	green	grained			sericite on foliation surfaces	minor stringers, locally	
		weak				also minor chlorite; moderate	laminated (bedded?)	
	(Int Tuff)	green				to strongly bleached.		
		cast		44.60 to 45.76				
				Andesite lithic Tuff (Diorite?)				

HOLE NO 86-107 CAB 45.76 55°

50.26

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				45.76 to 47.70			2-3% pyrite, disseminated, stringers	
				46.78 to 46.93				
				Intermediate to Andesite lithic				
				Tuff;				
				47.70 to 48.71			2-3% pyrite, disseminated,	
				70% interbedded felsic Ash			stringers, locally bedded	
				CAB 48.15	52°			
				48.71 to 49.91				
				Andesite Lithic Tuff				
				50.26 to 52.87				
				locally intensely sheared, minor				
				sponge seams, local core loss				
				52.87 to 56.06		strongly bleached, well		
						developed sericite on foliation		
						surfaces, locally siliceous		
56.06	Andesite	medium	fine to	moderately foliated, granular		moderate to well developed	5% pyrite, disseminated,	
57.95	Ash to lithic	dark	medium			chlorite on foliation	minor stringers, trace	
	Tuff	green	grained			surfaces;	chalcopyrite;	
	(Aud Ash-							
	lit)							

HOLE NO 86-107

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
57.85 →	Andesite	medium to	medium	Thick bedded, weakly foliated;		weak to moderate chlorite	2% pyrite, disseminated;	
	Lithic Tuff	dark		very granular		development on foliation	patchy, minor stringers;	
		green				surfaces	trace chalcopyrite;	
	(AndLT)							

HOLE NO. 86-107

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14363	6.70	8.55																					
14364	8.55	9.70																					
14365	9.70	10.96																					
14366	10.96	12.00																					
14367	12.00	13.77																					
14368	13.77	14.56																					
14369	31.08	32.53																					
14370	32.53	33.69																					
14371	41.45	43.90			ICP																		
14372	43.90	44.60																					
14373	44.60	45.76			ICP																		
14374	45.76	47.70																					
14375	47.70	48.71																					
14376	48.71	49.91																					
14377	49.91	52.87																					
14378	52.87	54.15																					
14379	54.15	56.06																					
14380	56.06	56.90																					
14381	56.90	57.85																					

HOLE NO 86-107

PAGE

ZIPPY PRINT — PRINCEPORT RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14371	41.45	43.90																				
14373	44.60	45.76																				

Hole No. 86-107 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

DDH 86-108

0.00 to 9.68	OB
9.68 to 41.75	And XT
41.75 to 50.66	QP-Tuff
50.66 to 55.65	And Ash
55.65 to 80.70	And Ash-XT
80.70 to 84.01	QP-Tuff
84.01 to 108.99	F-Tuff
108.99 to 149.70	QP-Tuff
149.70 165.40	F-Tuff
165.40 to 176.60	QFP-Tuff
176.60 to 185.01	Diorite
185.01	EOH

Relog

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	<OB>					—		
9.68								
9.68 to	Andesite Crystal	medium to	medium	thick bedded, weak to moderately foliated;		weak to locally moderately	rare trace disseminated pyrite.	minor quartz veins
41.75	Tuff	dark green	grained	10% wh to cgbrnish lt chlry alt to locally		calcareous; well developed		core badly broken between 35.00
	<And XT>			wkly epidote alt feldspar xls to		chlorite on foliation surfaces;		and 41.75
				1mm, 4-3% dk brn to blk mafic xls to				
				1mm; rare epidized lithic fragments to 1cm;				
				14.10 to 14.30 Shear	23°			
				18.70 to 18.85 Shear	80°			
				19.08 to 20.42 <Fault>	87°			
				21.90 to 21.95 Shear				
				28.60 to 28.66 Shear	17°			
				28.90 to 28.95 Shear	77°			
				32.50 to 33.10				
				50% quartz carbonate veins to 12cm				
				35.00 to 35.70				
				Core badly broken "Shear"				
				35.70 to 35.71 Shear	70°			
				35.70 to 36.68		well developed sericite on		
				Rhyolite QP; very fine grained		foliation surfaces		
				wh to tan felsic Ash with 2-5%				
				QE <1mm				

HOLE NO 108

96.42.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				36.68 to 41.75		—		
				the andesitic unit becomes much		well developed chlorite with	1% disseminated pyrite, also minor	
				finer grained and may locally be		minor sericite on foliation surf	stringers	
				more intermediate in composition				
				(Intermediate Ash)				
				CAF at 41.75	70°			
41.75 to	Rhyolite	white to	fine	thick bedded, moderately foliated;		well developed sericite on foliation	<1% disseminated fgr pyr	core badly broken in this interval
50.66	Quartz	very light	grained	5-7% QE to 1mm; groundmass		surfaces		
	Porphyry	grey		very fine grained to aphanitic;				
	(RP Tuff)							
				46.42 to 46.99				
				Quartz Pyrite Stringer			25% m-cgr pyrite	
				46.60 to 48.60				
				core locally strongly sheared with				
				minor gouge.				
				46.70 to 50.40				
				3-5% quartz veins				
50.66 to	Andesite	medium	fine	thick bedded; moderate to locally		well developed chlorite on	2-3% disseminated, weakly	
55.65	Ash	green	grained	strongly foliated; may contain		foliation surfaces; weak to	laminated fgr pyrite	
	(Arch Ash)			5% white to ghosty feldspar xls 1mm;		locally calcareous		
				2-3% locally, rounded quartz				
				grains				
				50.66 to 50.70 Shear	77°			

HOLE NO 108

PAGE 2.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				52.06 to 52.36				
				quartz pyrite stringer			5-10% m-cgr pyr	
				54.26 to 55.65				
				Rhyolite QFP; light grey (wk gn cast)		well developed sericite on foliation	trace disseminated pyrite	
				thick bedded, moderately foliated;		surfaces		
				2% QE <1mm; <5% white to ghosty				
				feldspars <1mm;				
				CAB at 55.65	55°			
55.65 to 80.70	Andesite Ash to Crystal Tuff	medium to dark green	fine to medium grained	moderate to thickly bedded; moderately		well developed chlorite on	1-2% pyrite, disseminated, wkly	
				foliated; 5 to locally 10% wh-cgh ghosty,		foliation surfaces;	laminated; local stringers; rare	
				chlor to wk epidote altered feldspar			trace chalcopyrite with the	
				xls to 1mm; 2-3% dark green to			stringers. Stringer are predominant	
	(And Ash-XT)			black matrix crystal to 1mm;			between 55.53 and 56.82.	
				generally 1-2% quartz grains to				
				1mm;				
				56.15 to 56.19 Shear	70°			
				56.73 to 56.84 Shear	64°			
				CAF 59.76m	45°			
				60.49 to 62.96				
				Rhyolite Tuff; lt grey, wk green cast;		moderately developed sericite on	trace disseminated pyrite	
				fine to medium grained; locally has a		foliation surf		
				weak, bleached mottled look, possible				

HOLE NO 108

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				fragments, flattened and elongated				
				parl to foliation;				
				62.10 to 62.18, Andesite Ash				
				below 62.18 the fabrics become a more				
				coarse grained QFP, much more massive in character				
				60.49 to 60.51 Shear				
				64.70 to 64.78, minor buckle folded				
				quartz veins				
				65.70 to 65.90, minor buckle folded				
				quartz veins				
				65.90 to 66.00 Shear				
				68.35 CAF	40°			
				68.47 to 68.87			minor quartz pyrite stringers with	
							trace chalcopyrite.	
				69.57 to 70.20, 95% quartz				
				carbonate veins abundant chloritic				
				patches, minor amount of pyrite.				
				70.20 to 74.22, Andesite Crystal Tuff,		weak to locally moderately	<1% disseminated fgr pyrite	
				m-cgr, thick bedded, wk foliated, 10-15		calcareous, well developed		
				wk to wk epid altered feldspar xls		chlorite on foliation surfs		
				to limit, 3-5% mafic xls, minor				

HOLE NO 108

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				quartz grains <5%.				
				75.55 to 76.94, minor quartz				
				pyrite stringers, rare trace				
				chalcopyrite;				
				78.40 to 78.42 Shear	48°			
				78.68 to 78.69 Shear	60°			
				79.74 to 79.88 Shear	68°			
80.70	Felsic	medium	fine to	thick bedded, moderately foliated,		well developed sericite and	2% disseminated fgr pyr	
84.01	QP Tuff	grey green	medium	3-5% QE's or quartz grains to		minor chlorite on fol surfaces		
			grained	1mm, groundmass is a fine grained Ash				
	(QP-Tuff)							
				81.30 to 81.35			pyrite stringer	
				82.10 to 82.13			pyrite stringer	
				82.16 to 82.33				
				foliation highly contorted				
				82.33 to 82.43 Shear	42°			
				83.33 to 83.36 Shear	40°			
				83.36 to 83.43 Shear	37°			
84.01 to	Felsic	light grey	fine to	moderate to thick bedded, moderate to		Well developed sericite with	3% pyrite, disseminated and in	this is a dacitic interval that
108.99 m	Tuff	wh green	medium	strongly foliated, locally the interval		minor chlorite on fol surfaces	stringers, local trace sphalerite;	that is variably alt. the strongest
	(F Tuff)	cast: loc		contains <3% wh-ghost feldspars			pyrite stringers up to 4cm in	alteration being in the pyrite
		bleached		(lenticular) are not in well defined beds through			thickness	stringer sections. Best alteration
		white						

HOLE NO. 108

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				Elsewhere in the interval, they are obscured by the alterations		—		between 84.01 and 108.99 m
				88.93 to 91.86 Andesite Crystal Tuff		well developed chlorite on fol surfaces	Trace disseminated pyrite	very poor recovery in this section
				CAF 90.40	50°			
				90.51 to 96.18			3-5% pyrite, disseminated, but predominately in stringers	
				94.84 to 95.30 (Fault) abundant gouge.				core is cut, unable to measure angle
				96.18 to 97.73 Diorite? or mafic dyke				
				96.18 to 96.43 Shear	60°			
				96.43 to 108.99			3-5% pyrite, disseminated but predominately in stringers	
				103.69 to 104.29 Quartz Vein				
				105.45 CAF	60°			
				108.06 to 108.35 Shear	75°			
108.99 to 149.70	Quartz Porphyry Tuff 106 → (QP Tuff)	light grey green	medium	thick bedded, moderately foliated; 1-3% QE to 1mm, for. inner fel phenos, generally hard to distinguish		moderately developed sericite + chlorite on foliation surf, sericite not as dominant as between 84.01 to 108.99	1-2% disseminated, minor patchy pyrite, rare stringer	generally not much different from above, other than the alteration

HOLE NO

PAGE 6

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				112.55 to 112.57 Shear	78°	—		
				115.83 to 115.86 Shear	54°			
				121.50 to 121.61 Shear				
				122.68 to 122.73 Shear	20°			
				123.26 to 123.27 Shear				
				129.60 to 129.90 minor quartz pyrite stringers			3-5% pyrite	
				129.90 to 129.95 Shear	25°			
				133.52 to 133.69 quartz pyrite stringer			10% pyrite	
				134.95 to 135.27 quartz vein			minor pyrite	
				136.70 to 138.80 weakly sheared				
				138.80 to 138.90 Ash layer		weak to moderate silicification		

HOLE NO 108

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				140.95 to 147.82				
				weak to moderately sheared, local minor				
				gouge seams				
				142.34 to 142.46 m				
				Felsic to intermediate ash, CAB	65°			
				147.82 to 149.70 (Fault)				
				strongly sheared abundant gouge and				
				gravel seams				
				147.82 to 148.10			3-5% Py stringers	
149.70	Felsic	medium gray	fine to	thick bedded, moderately foliated		weak to moderately	1% class fine grained pyrite	
165.40	tuff	green	medium	texture difficult to distinguish		developed sericite and	minor patches and stringers	
						chlorite on foliation surf		
	(F Tuff)							
				CAF 157.70	60°			
				CAF 165.00	59°			
				163.06 to 165.40				
				foliation takes a swing from almost				there has been core ground
				000° to 025°; interval becomes				away at 163.06 so that the
				coarser grained and more siliceous				point where the foliation takes a
				164.45 to 165.40		patchy silica alteration		swing is not clear

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
165.40 to	Rhyolite	white to	fine to	thickly bedded, weakly foliated; 5%		50 to 60% of the interval has	5% disseminated, and weakly	
176.60	Quartz Feldspar	greyish	medium	to 10% white to ghosty to weakly		been silicified, producing a	patchy fine grained pyrite	
	Porphyry	green	grained	epidote altered feldspar crystals to		mottled or fragmental look;		
	(RhyQFP)			½mm; 5% Quartz eyes to 1mm;		well developed sericite and		
				may contain wh felsic fragments to		minor chlorite on foliation		
				6mm;		surfaces;		
				170.12 to 170.13 Shear	45°			
				CAF 170.50	40°			
				170.13 to 175.28m.			2-3% pyrite, disseminated, patchy	
				interval contains 10 to 15% feldspar			and minor stringers	
				predominately epidote and clay				
				altered.				
				176.45 to 176.60 Shear	30°			
176.60 to	Diorite	medium to	fine to	Massive, wk to strongly foliated;		minor leucoxene	strongly calcareous	
185.01	(Diorite)	dark green	medium					
			grey					
185.01	End of							
	Hole:							

108

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
13204	80.70	82.22														198	93	23	1.30	15			
13205	82.22	84.01														19	87	23	1.10	10			
13206	84.01	85.38														16	36	15	0.70	5			

HOLE NO 87-108

PAGE

ZIPPY PRINT PORT RICHMOND

in W262.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	<OB>					—		
6.92								
6.92 to	Intermediate	light	fine	Thin to moderately bedded;		weak to moderate sericite and	1-2% pyrite, fine grained;	moderate to strongly oxidized
11.95	Ash to Lithic	greyish	grained	abundant chert interbeds;		chlorite development on	disseminated, laminated, minor	
	Tuff	cream				foliation surfaces	stringers	
	<Int Ash LT>			CAB 8.00	75°			
11.95 to	<Diorite>	dark	medium	hornfelsed; strongly weathered;				
16.52		green	to					
			coarse					
			grained					
16.52 to	Felsic Ash to	very light	fine	Thin to moderately bedded;		well developed sericite on	1% pyrite, disseminated,	"Blitzed"
26.37	Lithic Tuff	grey to	grained			foliation surfaces	laminated and finely bedded;	
		white						
	<F Ash LT>			16.52 to 17.84				
				more intermediate in composition				
				17.84 to 17.86 Fault, gouge	56°			
				17.86 to 19.00m				
				local chert interbeds.				
				18.55 to 18.57 Fault, gouge	70°			

HOLE NO 86-109

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				18.90 to 19.00 Fault, gouge	30°	—		
				20.26 to 23.46				
				Fault, abundant gouge, very poor				
				recovery; local chert horbs.				
				24.86 to 25.92.			2-3% pyrite predominately stringers	
							trace chalcopyrite.	
				25.92 to 26.37			30% pyrite trace chalcopyrite;	
				Upper contact; more intermediate in composition	55°		possibly bedded.	
				massive pyrite between 25.92 to				
				26.09m.				
26.37	[Diorite]	medium	medium	Kurmitsen; upper limestone				
42.10		dark	to coarse	contains abundant felsic fragments				
		green	grained					
42.10 to	Felsic Tuff	very light	fine to	Thick bedded weak to moderately				Possible bleached intermediate
58.04		to medium	medium	foliated; rare quartz eyes to 3mm				
	[F Tuff]	grey	grained.					
				42.10 to 46.00			5% pyrite, predominately	
							stringers trace chalcopyrite.	
				46.00 to 58.04			1-2% pyrite patchy and minor	
							stringers	

HOLE NO 86-109

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				48.65 to 50.25		—		
				strongly sheared, local gouge				
58.04 to	Andesite	very light	fine to	Thick bedded, moderately foliated;		moderate to well developed		
→	Crystal Lithic	to medium	medium	very granular in appearance.		chlorite on foliation		
	Tuff	green	grained			surfaces		
	(AndXLT)							

HOLE NO 86-109

PAGE 3

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14352	6.92	8.22																					
14353	8.22	9.44																					
14354	9.44	10.40																					
14355	10.40	11.95																					
14356	16.82	17.84																					
14357	17.84	19.00																					
14358	19.00	20.26																					
14359	42.10	43.44																					
14360	43.44	44.80																					
14361	44.80	46.00																					
14362	46.00	47.57												200.51		201.60							
[redacted]					check last geochem for 109+ interval = ?									201.60		203.60							
14404	24.86	25.92																					
14405	25.92	26.37																					

HOLE NO 86-109

PAGE

ZIPPY PRINT - PRINTING PORT RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14360	43.44	44.80																				

Hole No. 86-109 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

86-110

0.00 to 14.20	OB	119.58 to 127.51	QP-Tuff
14.20 to 62.16	QFP Tuff	127.51 to 142.35	Diorite
62.16 to 70.05	And XT-Ash	142.35 to 223.60	QFP-Tuff
70.05 to 75.02	QFP Tuff	223.60 to 252.01	QFP-LAT
75.02 to 82.48	QP-Tuff	252.01 to 261.96	And XLT-Ash
82.48 to 90.65	And XT	261.96 to 269.65	QFP-Dyke
90.65 to 93.85	F-Tuff	269.65 to 278.40	Nanaimo
93.85 to 113.60	Diorite	278.40	EOH
113.60 to 117.56	QP Tuff		
117.56 to 119.58	And Ash-XT		

Relog

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 14.20	<OB>							
14.20 to 62.16	Rhiolite Quartz Feldspar Porphyry <QFP>	white	fine grained	Massive bedded, ~~weakly~~ moderate to locally strongly foliated; <5% to 5% round to avoid to subangular quartz eyes <1mm; 5% to loc 10% white to ghosty to weakly epidote altered feld crystals <1mm; ground mass is very fine grained and siliceous; <5% qtz veining overall, generally <7cm in width, weakly calcareous, locally baritic, and may contain minor amounts of Rhodocrosite; quartz veins are generally perp to foliation (80°), to 15° locally		moderate to well developed sericite on foliation surfaces epidote alt feldspars occur only proximal to qtz veins. local siliceous patches	generally around 1% fine grained disseminated pyrite, also occurs along well developed microfractures to fractures, crosscutting / to 2%	
				14.20 to 14.45 predominately a baritic quartz vein containing minor blebs of pyrite				very poor recovery
							14.45 to 14.70 <MSSX> 80% medium to coarse grained pyrite, with abundant siliceous nodules, very stringery in appearance;	
				15.79 to 15.84 Massive Barite, vein? has a core to bedding?, ∡ of 60°				
				15.84 to 17.21m core quite heavy, baritic?				

HOLE NO 110

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				CAF at 18.40m		—		
				82°				
				25.30 to 26.67m				
				(Fault) intensly sheared with				
				abundant gouge seams, shear and gouge				
				core angles of 37° to 55° common				
				26.67 to 27.90m		weak sericite and chlorite	contains 3-5% v fine grained	
				Intermediate Tuff, medium grey		alteration on foliation	pyrite, syngenitic	
				with a weak green cast; upper		surfaces		
				20cm contains 5% QE to 2mm;				
				interval generally contains 5-10%				
				wh to ghosty to chay altered feldspar				
				crystals to ½mm; this interval				
				may also contain minor ash				
				interlayers 5 1cm;				
				upper 10cm moderate to strongly				
				sheared; lower contact also sheared				
				CAF at 27.45m 63°, bedding?				
				28.65 to 28.70 (Shear) 51°				
				29.09 to 29.13 (Shear) 79°				
				31.61 to 31.65m (Shear) 72°				

HOLE NO 110

(2)

ZIPPY PRINT® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				33.05 to 33.46 (Shear)				
				minor gouge seams				
				38.00 to 38.10m Shear 60°				
				38.60 to 38.62 Shear 65°				
				39.16m CAF 70°				
				40.45m to 40.64 Diorite Dyke.				
				41.87 to 41.89 shear 80°				
				42.69 to 42.90 (Fault) 66°				
				43.00 to 43.31 (Fault) 50°				
				44.35m to 44.53 (Shear) 46°			minor pyrite stringers between 43.50 and 44.15m	
				45.19 to 45.20 Shear 70°				
							46.26 to 46.38 minor pyrite stringers	moderately sheared interval
							47.85 to 48.00 minor pyrite stringers	moderately sheared interval
							49.39 to 49.56 minor pyrite stringers	moderately sheared interval

HOLE NO 26

(3)

PAGE

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				49.70 to 53.22 (Shear) 36°				
				minor gouge seam to 3cm;				
				53.65 to 53.71 shear, 66°, 28°			53.65 to 54.67 m minor pyrite stringers	local minor shearing
				CAF at 57.80m 74° →				
				58.95 to 60.90 (Fault) 80°				
				strongly sheared with abundant gouge				
62.16 to	Andesite	medium to	fine to	Interbedded sequence of Andesite		local patchy silica alteration	Ash beds contain 3-5%	unit contains minor brecciated
70.05	Crystal to Ash	dark green	medium	Crystal Tuffs to Ash; Thin to		local weak patchy epidote	fine grained, bedded pyrite	folded quartz veins.
	Tuffs		grained	moderately interbedded, wk to		alteration.	syngenetic.	
	(Andst-Ash)			moderately foliated; Crystal rich				
				beds contain 5 to locally 10% feldspars,		interval weak to moderately		
				white to glassy, to predominately		calcareous		
				weakly epidote altered, to 1mm;				
				<5% siliceous fragments to 2mm;				
				1-3% dk green chloritic fragments				
				62.16 to 62.36				
				minor shearing	72°			
				CAB at 62.40	55°		at 61.33 m possible 3mm Chert or felsic Ash bed	CAB 37°
				64.97 to 65.85 (Fault)				
				strong gouge section	50°?			

HOLE NO 210

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				67.80 to 68.00 (Fault)			2-3% coarse grained to medium	
				Strong gouge section.	25°		grained pyrite with minor	
							blebby chalcopyrite	
70.05 to	Quartz Felsic Feldspar	light to	medium	Thick bedded, weak to moderately		moderately developed sericite	1% disseminated fine pyrite	
75.02	Porphyry	medium	grained	foliated, 5% wk to ghosty to		and minor chlorite on		
	(QFP)	grey		clay altered feldspar xls to		foliation surfaces.		
				1/2mm, possible 1-3% QE <1mm locally				
				70.05 to 71.15 possible LBT			2-3% fine to medium grained	
				contains indistinct siliceous fragments			pyrite	
				to several cm.				
				73.74 to 73.75 Shear	70°			
				74.97 to 75.02 (Fault)				
				Strong gouge section				
75.02 to	Felsic QP	light to	fine to					
82.48	Tuff	medium	medium	Thick bedded, moderate to locally		well developed sericite on	<1% disseminated, patchy fine	Core is badly broken, with
	(QP)	grey	grained	strongly foliated; 2-3% QE to		foliation surfaces	pyrite.	local gouge sections
				<1mm, <5% wk to ghosty to		local patchy silica		
				clay altered feld xls <1/2mm.				
				matrix is aphanitic and locally				
				siliceous.				
				75.60 to 76.80m.			1% disseminated patchy f-m grey	
				Andesite XT			pyrite, rare chalcopyrite blebs in	
							minor qtz veins.	
				76.40 to 76.81 Fault, gouge.	80°			

HOLE NO 210

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				78.65 to 78.80 (Fault)				
				Strong gouge section				
				CAF at 81.60	65°			
				81.90 to 82.30				
				Possible LAT intervals, white, flattened				
				felsic fragments 1cm to 3cm				
				82.30 to 82.48m			3-5% m-cgr pyrite	stringers
				90% qtz vns				
82.48 to	Andesite	dark	fine to	Thick bedded; moderately		weak to moderately calcareous	2-3% disseminated, patchy,	minor buckle folded quartz
90.65	Crystal Tuff	green	medium	foliated; 5 to 10% wh to ghosty to			medium grained pyrite, also minor	veins
	(And XT)		grained	epidote altered feldspar crystals to			stringers	
				1mm; 10% mafic crystals to 1mm;				
				83.00 to 83.07 Shear	30°			
				CAF at 83.30	85°			
				CAF at 85.20	61°			
				85.47 to 87.43 (Fault)				very poor recovery
				abundant gouge				

HOLE NO 210

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
90.65 to 93.85	Felsic Tuff (F Tuff)	light to medium grey weak green cast	fine to medium grained	Thick bedded; moderately foliated; 5% white to ghosty feldspar crystals, ground mass very fine grained to aphanitic, rare QE to 1mm;		moderately developed sericite, good chlorite on foliation surfaces; local patchy silica alteration	1-2% disseminated to patchy to stringers of medium grained pyrite	minor quartz veins with buckle folds
				93.08 to 93.14m			80% pyrite stringer with minor chalcopyrite (<1%)	
				93.80 to 93.85 Strong shear				
93.85 to 113.60	Diorite (Diorite)	dark green	fine to coarse	numerous fine to coarse grained phases; fine grained phases are moderately foliated;		fine grained phases are moderate to strongly calcareous, numerous x cutting quartz carbonate veinlets; local hematite staining	abundant leucoxene in fine grained phases; local abundant magnetite crystals	
				98.60 to 98.70 Shear				
				CAF at 98.94	40°			
				CAF at 112.00	38°			
				113.59 to 113.60 Shear abundant apuage	83°			
113.60 to 117.56	Felsic QP Tuff (QP)	white to tan grey	fine grained	moderately bedded, moderately to strongly foliated, 5% feldspar, wh to ghosty to chalky, 2% QE to 1mm; groun vf grained to aphanitic; rare chlorite fragments, 1cm x 2mm; local intervals <10cm may contain 5% QE to 2mm		well developed sericite with minor chlorite on foliation surfaces; this interval is weakly chloritic at the top of the interval proximal to the diorite.	1-2% pyrite predominately in cross cutting structures, and blebs; locally pyrite appears to be fragments? but may be along minor fractures	minor quartz veins with trace chalcopyrite

HOLE NO 210

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
						—	50° up	
				114.04 to 114.09 (Fault)	50°			
				well developed C.S fabric				
				114.14 to 114.19			quartz stringer with 10% chalcopyrite	
				114.30 to 114.31 shear	33°			
				114.81 to 114.90 (Fault)	55°			
				CAF at 115.70	38°			
				115.88 to 115.90 shear	62°			
117.56 to 119.68	Andesite Ash to Crystal Tuff	medium to dark green	very fine to medium grained	thin to moderately bedded, moderate to locally strongly foliated. The interval is predominantly Ash.		moderate to strongly calcareous	<1% disseminated, patchy fine grained pyrite	
	(And Ash-XT)			below 119.10; the crystal Tuff contains 5 to 10% lith to ghosting feldspars to 4mm; may contain abundant felsic fragments 1mm x 2mm flattened still to foliation. "weak mottled texture"		well developed chlorite on foliation surfaces		
				CAF at 117.90m	35°			
				119.23 to 119.30 (Fault) strong gouge zone.				

HOLE NO 210

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				119.50 to 119.58 Shear	87°	—		
				brecciated and heated				
119.58 to	Felsic QP Tuff	white to	fine	moderately bedded; moderate to heavy		very well developed sericite	1% sprinkle fine to medium grained;	Identical to interval between
127.51	<QP>	light grey	grained	strongly foliated; 15% wh to ghosty → to clay alt.		& hung foliation planes	predominately disseminated and	113.60 and 117.56
				feldspar xls to 4mm; 2-3% QE			along micro fracture	
				5mm; groundmass very fine				
				grained to aphanitic, contains				
				5% light to medium green lithic				
				fragments to 1mm. Flattened ptl to				
				foliation				
				120.20 to 120.60				
				foliation highly contorted				
				120.60 to 120.70 Fault	63°			
				strong gouge zone.				
				120.15 to 122.22 Fault				
				strong gouge zone.				
				122.34 to 122.35 Shear	29°			
				122.47 to 120.54 Fault	50°			
				strong gouge zone				
				CAF 125.90	41°			

HOLE NO 210

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				126.30 to 126.33 Fault	30°	—		
127.51 to 142.35	Diorite (Diorite)	dark green	medium to coarse grained	massive, weakly foliated; medium to coarse grained phases		well developed chill margin on upper contact		
				142.29 to 142.35 shear abundant gouge.				
142.35 to 223.60	Felsic Quartz Feldspar Porph (QFP)	white to very light grey	fine grained	thick bedded; moderately foliated; 2-3% quartz eyes to 1mm; 5% white → to clay altered to ghosty feldspars to ½mm; 1-2% mafic greens with fragments 5mm x 1-2mm (these generally appear as chloritic xenoliths)		well developed sericite on foliation surfaces	<1% disseminated, patchy fine grained pyrite	
				142.35 to 144.27		strongly silicified		
				CAF at 150.00	40°			
				150.40 to 155.44 (Qtz Vn) 90% quartz veins			barren.	
				152.30 to 153.63 Fault intensely sheared with abundant gouge.				

HOLE NO 210

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ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				155.00 to 155.44 Fault				
				intense shearing and abundant gouge				
				155.44 to 160.05				
				foliation is highly continuous, and	strongly foliated		have trace sphalerite and	
				abundant CS fabrics generally			chalcopyrite along fractures	
				between 60° & 70°, movement can be				
				in either direction.				
				155.44 to 163.60				
				this section has a bleached white				
				banded look to it, possible				
				fragments, bands are to 1½ cm.				
				CAF at 162.00	38°			
				155.40 to 223.60				
				the m-dk grn lith fragments noted				
				at the start become more indistinct				
				towards the bottom of the				
				interval, they generally become				
				weak chloritic wispy				
				155.40 to 174.06				
				the bleached white banded				
				appearance is less prevalent				
				through this section				

HOLE NO 210

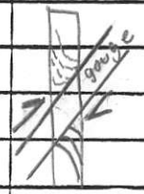
ZIPPY PRINT © — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				166.82 CS Fabric	26°			
				downhole up thrust				
				170.17 CS Fabric	70°			
				downhole up thrust				
				CAF at 170.40	25°			
				172.00 to 182.00	000° to 20°			
				minor crenulations in the core.	angle decreases			
					downhole			
				174.06 to 174.32		well developed chlorite on fol surf	2-3% disseminated, laminated fine pyrite	
				Andesite crystal tuff interbed				
				CAB at 174.06	20°			
				174.15 to 174.16 Shear				
				CAF at 177.80	15°			
				178.03 to 178.05 Shear				
				predominately gouge				
				178.05 to 178.50			2-3% disseminated pyrite	
				Andesite Crystal Lithic Tuff				

HOLE NO 210

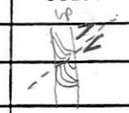
PAGE 12.

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				178.50 to 178.52 Shear		—		
				predominately gouge.				
						178.93 to 178.96		
				178.96 to 179.08		silicified	1% disseminated pyrite	
				Andesite Crystal Tuff				
				179.08 to 179.11 Fault	29°			
				gouge				
				CAF 180.70	28°			
				182.40 to 182.42 Shear				
				gouge				
				182.42 to 182.67				
				Quartz vein				
		up						
				182.86 to 182.90	55°			
				Well developed CS Schist				
				184.10 to 184.11 Shear	28°			
				CAF 184.21	35°			
				185.21 to 190.97		local weathering to		
				abundant minor crenulations		alteration of feldspar		
				and shears		crystals.		
				Shears	020 to 030			

HOLE NO 210

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				190.06 well Developed CS	60°	—		
				190.97 to 195.77		weak light brown alteration		
						colour, minor biotite?; feldspars		
						are predominately epidote		
						altered; still well developed		
						sericite and minor chlorite on		
						foliation surfaces		
				194.06 Fault	51°			
				~~194.00~~ CAF at 195.20	27°			
				195.77 to 195.86 Fault	50°			
			→	195.86 to 223.60		↑	1% pyritic stringers, locally	
				~~mo~~ local crenulations and		well developed sericite on	these may contain chalcopyrite	
				minor shears;		foliation surfaces	and galena; local trace	
							sphalerite; stringers exist	
							foliation; also very fine grained	
							disseminated pyrite.	
				197.60m shear	30°			
				CAF 199.35	20°			
			→	203.00 to 206.00		feldspars become weakly		
						epidotized, and commonly		
						have carbonate rich veins;		
						locally epidote forms small		
						blebs		

locally 2%

do we have a lith from this interval?

HOLE NO 210

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				CAF 214.85m	30°	—		
				218.05 to 218.10 shear				
				218.10 to 223.60m		common patchy carbonate		
223.60 to 252.01	Felsic Quartz Porphyry Tuff Lapilli Tuff [QFP-LAT]	Feldspar white to very light grey, when therewas abundant LA. matrix is a medium grey/green to green colour	medium to coarse grained	Thick bedded, massive; weak to moderately foliated; 3-5% QE generally < 1mm; 5% to locally 10% wh to ghosty feldspar crystals, also clay altered. This interval also has 85% of what may be a very fine grained to aphanitic felsic tuff, that is predominately silica; which may be large fragments with the QFP acting as a matrix, very possible chert fragments; This gives the interval a very patchy look, but I don't think it's a pervasive silica alteration		common patchy carbonate alteration especially around feldspars; heavily feldspars are quite altered	5% disseminated fine grained pyrite possible trace sphalerite	If this is a fragmental unit it should make an excellent marker
				230.80 to 240.00 30 to 50% very siliceous felsic fragments,		has what appears to be a patchy brown alteration		This interval has a more intermediate than felsic look to it.
				231.40 to 231.70			10% medium to coarse grained pyrite stringers	

HOLE NO 210

231.70 to 232.00 shear.

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				CAF at 234.00	37°	—		
				240.00 to 242.75				Interval definitely has an
				15 to 20% felsic fragments, the				intermediate look to it
				matrix is also fine to medium grained				
				242.75 to 249.98			local cross cutting quartz pyrite	Still generally has an intermediate
				30 to 50% felsic fragments, 2-3%			stringers;	look to it
				dark green fine grained andesitic				
				fragments				
				CAF ~~[illegible]~~ 249.10	38°			
				249.98 to 250.50		weakly silicified	1-2% fine grained disseminated	
				Felsic Ash; medium grey green fine		sericite with minor chlorite	pyrite; also possible trace disseminated	
				to medium grained; 5-10% fine grained		developed on foliation surface	chalcopyrite	
				fragments? xis? <1mm;				
				250.30 to 250.50				
				minor shearing				
				250.50 to 252.01				
				Intermediate Ash; medium green grey;		local well developed chlorite and	1-2% fine grained disseminated and	
				fine grained; thin to moderately bedded;		minor sericite on foliation	patchy pyrite; also possible trace	
						surfaces	chalcopyrite; also trace chalcopyrite	
							in minor quartz veins	

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				250.96 to 251.34		—		downhole of this structure the
				Fault; strongly sheared with minor				bedding to core angle is more perpendicular
				gouge.				
				251.34 to 251.83				
				more crystal rich section; also		feldspars weakly altered		
				has a weak well bedded look, possibly a bit more				
				felsic than above noted interval.				
				251.83 to 251.87				
				Disrupted chert in felsic intrusion				
				CAB at 252.01	88°			
252.01 to	Andesite Crystal	medium	fine to	very thin to moderately bedded, weakly		interval weakly epidotized; local	<1% disseminated fragypyrite,	
261.96	Lithic Tuff to	green	medium	foliated; 10% clasts to predominately		minor biotite development	locally 1-2% pyrite over narrow intervals,	
	Ash		grained	epidote altered feldspar crystal to				
	(Ard XLT-Ash)			1% mafic. Interval locally contains very thin to thin interbeds of felsic to			Andesitic Ash	
				↳ <5% epidized fragments 2mm-1cm (rare)				
				252.38 to 252.44				
				Andesite Ash interval				
				252.64 to 255.20				
				interval contains 75% very thin				
				to thinly interbedded felsic to				
				intermediate tuff, also minor				
				chert.				
				CAB 254.20	60°			

HOLE NO 210

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				254.90 to 255.00		—		
				Fault	30°			
				256.67m to 257.50				
				60% Felsic to intermediate Ash				
				very thin to thin interbeds				
				with minor chert				
				CAB 255.05	68°			
				259.26 to 259.68				
				Quartz Vein				
				260.85 to 261.96		minor biotite development	<1% pyrite.	
				20% interbedded Andesitic Ash.				
261.96 to 269.65	Quartz Feldspar Porphyry (QFP-Dyke)	light to medium grey	medium	Thick bedded, massive, weakly foliated, 2-3% Quartz eyes to 3mm, 5% locally, 10% light green epidote altered feldspar xls to 3mm, groundmass is very fine grained to aphanitic and very siliceous, the interval contains rare felsic fragments to 4cm, these appear to be of the same material.			<1% pyrite.	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				266.56 to 267.10				
				moderate to strongly sheared				
				268.00 to 269.64				
				moderate to strongly sheared				
269.64 to 273.40	Siltstone (Marmora)	black to dark brown	very fine grained	contains abundant quartz carbonate veins				
				269.64 to 269.74 (Fault)				
				gouge				
				269.74 to 273.40				
				strongly sheared, very badly broken core				

HOLE NO 110

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
13201	249.98	250.50														281	177	32	1.90	2			
13202	250.50	252.01														154	443	19	0.80	3			
13203	252.14	254.50														162	182	22	0.80	2			

HOLE NO 86-110

PAGE 1 of 1

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LARA DRILL RESULTS

DDH-86-110
AVG CORE ANGLE 90
DIP OF ZONE 64

ANALYSIS CODE	GEOLOGIC DESCRIPTION	UNIT NUMBER	TAG NUMBER	START METERS	FINISH METERS	INTERVAL METERS	HORIZONTAL THICKNESS	BA GRADE %	CU GRADE %	PB GRADE %	ZN GRADE %	AG GRADE oz/ton	AU GRADE oz/ton	SPECIFIC GRAVITY	TRUE THICKNESS
G2*	1QEXT	DDH86 R110 1-1		14.20	15.76	1.56	1.74	23.00	0.00	0.00	0.00	0.01	0.000		1.56
G2*	1QEXT	DDH86 R110 1-2		15.76	17.22	1.46	1.62	7.90	0.00	0.00	0.00	0.00	0.000		1.46
G2*	1QEXT	DDH86 R110 1-3		17.22	19.61	2.39	2.66	0.56	0.00	0.00	0.00	0.00	0.000		2.39
G2*	1QEXT	DDH86 R110 1-4		19.61	20.17	0.56	0.62	0.58	0.00	0.00	0.00	0.00	0.000		0.56
G2*	1QEXT	DDH86 R110 1-5		20.17	21.64	1.47	1.64	1.40	0.00	0.00	0.00	0.00	0.000		1.47
G2*	1QEXT	DDH86 R110 1-6		21.64	23.20	1.56	1.74	0.52	0.00	0.00	0.00	0.00	0.000		1.56
G2*	2DLT	DDH86 R110 5-1		62.16	64.00	1.84	2.05	0.18	0.00	0.00	0.01	0.00	0.000		1.84
G2*	2DLT	DDH86 R110 5-2		64.00	66.00	2.00	2.23	0.14	0.00	0.00	0.01	0.01	0.000		2.00
G2*	1QEDLT	DDH86 R110 7-1		75.02	77.00	1.98	2.20	0.14	0.00	0.00	0.00	0.01	0.000		1.98
G2*	2DLT	DDH86 R110 8-3		93.03	93.85	0.82	0.91	0.20	0.08	0.00	0.00	0.02	0.001	3.8	0.82
G2*	1QELT	DDH86 R110 16		163.60	164.60	1.00	1.11	0.10	0.00	0.00	0.01	0.01	0.000	3.1	1.00
G2*	1QELT	DDH86 R110 22-2		215.00	216.69	1.69	1.88	0.20	0.00	0.00	0.01	0.00	0.000	3.0	1.69
G2*	1QELT	DDH86 R110 22-3		216.69	218.05	1.36	1.51	0.25	0.00	0.01	0.03	0.00	0.000	2.9	1.36
G2*	1T	DDH86 R110 25-1		231.04	232.80	1.76	1.96	0.23	0.03	0.00	0.03	0.01	0.000	2.8	1.76
G2*	1T	DDH86 R110 25-2		232.80	234.56	1.76	1.96	0.22	0.00	0.00	0.01	0.00	0.000	3.0	1.76

in W 262.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
18.18	(OB)							
18.18 to	(Diorite)	medium	medium	abundant leucoxene		strongly calcareous		
20.48		green	grained					
				19.70 to 19.81 Fault				
				intensly sheared, abundant gouge.				
20.48 to	(Fault)			Mylonized interval, appears locally			2-3% fine grained pyrite, generally	
24.89				bedded, predominately andesitic in			milled within the groundmass	
				composition, abundant epidote altered				
				lithic fragments, local felsic				
				fragments				
24.89	Felsic Quartz	white to	medium	Thick bedded, massive, moderately		moderate to well developed	3% pyrite predominately stringers	"Blitzed"
74.42	Porphyry Tuff	light	grained	well developed shear texture		sericite, minor chlorite on		
		greyish		throughout, 4-5% epidized fragments		foliation surfaces		
	(QPTuff)	green		to 8mm, foliation 000° to 20°				
				24.89 to 35.76			5% pyrite	
				25.42 to 32.61, Fault, core badly				extreme core loss between 29.5 to
				broken, intensly sheared				and 32.61 (10% recovery)
				32.61 to 35.76, strongly sheared				
				local gouge seams.				
				35.76 to 74.42		intensly bleached		

HOLE NO 86-112.

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				38.70 to 56.97		—		
				core very rubbly, extreme core				
				loss				
				60.60 to 65.59		well developed sericite and		possible that the entire
				Interval appears much more		chlorite on foliation		'interval' is a bleached 'intermediate'
				'intermediate' in nature, minor		planes		
				quartz eyes				
74.42				66.50 to 74.42				
				interval strongly sheared				
74.42 to	Andesite	medium to	medium	moderate to strongly foliated, very		well developed chlorite on		
78.48	Lithic Tuff	dark	to coarse	granular in appearance, rare		foliation surfaces		
		green	grained	felsic fragments to 1cm, local				
	(Ant 57)			felsic dykes,				
78.48 to	Felsic	white	medium	Massive, moderate to strongly				
	Quartz		to	sheared,				
	Porphyry		coarse					
	Dyke		grained					
	(88 Dike)							

HOLE NO 86-112

PAGE 2

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14348	24.89	26.50																					
14349	32.61	33.80																					
14350	33.80	35.76																					

HOLE NO _____ PAGE _____

ZIPPY PRINT - BRIDGEPORT RICHMOND

LITHOGEOCHEMISTRY

			MAJOR OXIDES										TRACE ELEMENTS									
SAMPLE NUMBER	FROM ( )	TO ( )	SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14351	56.97	60.04																				

Hole No. 86-112 Entered by _____ Logged by _____ Page No. 1

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

in W262.

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	(OB)							
30.78								
30.78	Quartz	white	medium	Thick bedded, massive; weak to		well developed sericite on	1-2% disseminated pyrite.	"Blitzed", if this is the
51.75	Porphyry		grained	moderately foliated; weak to		foliation surfaces; bleached		same QP unit as in 86-94 the
	Tuff			moderate shear texture throughout		locally silicified		charts will be well above
				3-5% quartz eyes to 3mm;				this interval. This interval is
	(QP Tuff)							part of the 26a Felsic Package.
				38.40 to 42.33 very strongly sheared				
				abundant gouge seams				
				44.80 to 45.74			5-10% pyritic stringers, minor	
							chalcopyrite	
				45.74 to 51.75				
				intensly sheared, abundant gouge seams				
51.75 →	Andesite							
	Lithic to							
	lapilli Tuff							

HOLE NO 86-113

PAGE 1

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14346	44.80	45.74																					

HOLE NO 86-113

PAGE

ZIPPY PRINT - BRIDGEPORT RICHMOND

in W262

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	(OB)					—		
10.97								
10.97 to	Felsic Tuff	white	fine to	Thick bedded, massive; moderate to		intense sericite development		foliation 000° to 30°;
	to Ash		medium	strongly foliated;		on foliation surfaces		"Blitzed"
			grained				10.97 to 11.99 m (1.02 m)	
	(F Tuff-						3% pyrite, very fine to medium	
	Ash)						grained, disseminated laminated,	
							trace chalcopyrite;	
				11.80 to 11.90				
				strongly sheared;	30°			
							11.99 to 14.02 (2.03 m)	
							5 to 10% pyrite; very fine to medium	
							grained; bedded; disseminated,	
							laminated, local stringers; trace	
							chalcopyrite;	
							14.02 to 15.48 (1.46 m)	
							5 to 10% pyrite, very fine to medium	
							grained; bedded, disseminated;	
							local stringers	
							15.48 to 17.07 (1.59 m)	
							1 to 2% pyrite; predominately	
							stringers	
							17.07 to 17.94 (0.87 m)	
							1% pyrite, predominately	
							stringers;	

HOLE NO. 97-159

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
							17.94 to 18.85 (0.91m)	
							<1% pyrite,	
							18.85 to 19.20 (0.35m)	
							<1% pyrite; interval contains	
							rare massive sphalerite, chalcopyrite	
							stringers	
							19.20 to 20.12 (0.92m)	
							<1% pyrite;	
							20.12 to 28.04 (7.92m)	
							1-2% pyrite; predominately	
							stringers; local trace sphalerite	
							and chalcopyrite	
							28.04 to 29.56 (1.52m)	
							1-2% pyrite; predominately	
							stringers;	
							29.56 to 31.08 (1.52m)	
							1-2% pyrite; predominately stringers,	
							minor sphalerite, chalcopyrite	
							stringers;	
							31.08 to 31.63 (0.55m)	
				31.55 to 31.63, Fault,			1-2% pyrite; predominately	
				predominately gouge.			stringers;	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				31.63 to 33.98		—		
				Diorite				
							33.98 to 34.82 (0.84 m)	
							<1% pyrite.	
				34.82 to 35.05			95% coarse grained pyrite.	
				Massive Sulphide			"very shaty looking" 1%	
							chalcopyrite.	
							35.05 to 36.27 (1.22 m)	
							2-3% pyrite, predominately stringers,	
							trace chalcopyrite, between 35.13 to	
							35.23 m, 50% coarse grained	
							pyrite.	
							36.27 to 37.14 (0.87 m)	
							1% pyrite, predominately stringers.	
				38.10 to 39.62			37.14 to 38.10 (0.96 m)	
				rare chert or silicified ash			1-2% pyrite, predominately stringers,	
				interbeds, bedding	35°			
							38.10 to 39.62 (1.52 m)	
							2-3% pyrite, predominately	
							stringers, trace chalcopyrite	

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				39.62 to 41.74			3% pyrite, disseminated, laminated;	
				local ash interbeds;				
				41.74 to 42.37				The Sequence from 41.74 to
				Andesite lithic Tuff				63.09, is the same as found
								in hole 86-81 between
								20.60 + 27.23, and 44.70 +
								50.00 m;
				42.37 to 43.28				
				Intermediate ash to tuff,				
				with felsic ash and chert				
				interbeds; very poor recovery				
				in this interval;				
				43.28 to 43.84				
				Andesite lithic Tuff				
				43.84 to 45.42				5% pyrite, disseminated and
				Intermediate Ash, abundant				bedded
				felsic ash and chert interbeds;				
				bedding at 44.78	60°			
				45.42 to 48.73				
				Andesite lapilli				
				30 to 40% epidote altered				
				lithic fragments to 1cm;				

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(5)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				48.73 to 49.98		—		
				Felsic Tuff; very poor recovery				
				<10%				
				49.98 to 53.30				
				Intermediate to Andesite, lithic				
				tuff				
				53.30 to 55.65				
				Intermediate Ash to lithic Tuff;				
				20-30% felsic Ash and chert				
				inter beds;				
				CAB at 53.33	81°			
				55.65 to 60.00		well developed sericite on	<1% pyrite; disseminated and	
				Felsic Lithic Tuff; minor clay		foliation surfaces;	in stringers;	
				altered fragments, to 2mm;				
				Feldspar? possible very weak				
				epidote alteration;				
				59.00 to 59.65 strongly sheared;				
				60.00 to 63.09		moderate development of		
				Intermediate Lithic Tuff;		sericite and chlorite		
				63.09 to 70.26				
				Felsic Lithic Tuff;		local well developed	1% pyrite, disseminated,	
						sericite on foliation surfaces	patchy;	

HOLE NO. 159

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
							63.09 to 64.31; 25% pyrite, predominately between 63.09 and 63.24, 90% medium to coarse grained pyrite, 10% quartz vein	
				63.24 to 66.45 moderate to locally strongly sheared, with abundant gouge.				
				68.75 to 68.80 Fault, gouge	44°			
							68.88 to 70.26 1-2% pyrite, disseminated, patchy and stringers	
				70.26 to 73.70 Intermediate to Andesitic Ash to Lithic Tuff, local felsic ash interbeds and possible chert, interval locally strongly sheared with gouge seams				
				73.70 to 75.29 Andesite Lithic Tuff?, Diorite? light to medium green, moderately foliated, very granular looking		Very strongly calcareous,		
				75.19 to 75.29 Fault, gouge.				

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				75.29 to 82.60		—		
				Diorite; moderately foliated, quite granular in appearance;		very strongly calcareous; abundant, leucoxene		
				"Sicker Age"?				
				82.60 to 87.57				
			And	~~Intermediate~~ Lithic Tuff;		well developed chlorite	1-2% pyrite fine to medium	Andesite?
				light to medium green;		on foliation surfaces	grained, disseminated, patchy,	
				fine to medium grained;			minor stringers	
				moderately foliated				
				87.57 to 92.41				
				Intermediate Tuff		well developed sericite and	trace disseminated pyrite	
				light greyish green, fine grained,		chlorite on foliation surfaces;		
				moderate to strongly foliated,				
							90.94 to 91.00	
							pyrite, chalcopyrite stringer	
				91.13 to 92.41 Fault,			1-2% pyrite; fine to medium	
				intensely sheared, abundant			grained, patchy and in stringers	
				gouge;				
				92.41 to 97.00.				
				Felsic Tuff; fine to medium		well developed sericite on	1% pyrite, locally up to 5%;	
				grained; well developed shear		foliation surfaces	disseminated and in stringers	
				texture throughout; The entire				
				interval is strongly sheared,				
				local abundant gouge.				

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				97.00 to →		—		
				Andesite, lithic tuff; medium		well developed chlorite on	2-3% pyrite, patchy and in	
				green, weak to moderately foliated		foliation surfaces	stringers; trace chalcopyrite	
				weak, chaos texture throughout				
				local weakly epidotized fragments to				
				3mm.				

HOLE NO. 159

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14423	39.62	41.74																					
14424	53.30	54.25																					
14425	54.25	55.65																					
14426	55.65	57.03																					
14427	63.09	64.31																					
14428	68.88	70.26																					
14429	70.26	72.24																					
14430	72.24	73.70																					

HOLE NO _____ PAGE _____

ZIPPY PRINT — ERIC GUPPORT RICHMOND

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14431	73.70	75.29																				
14432	83.51	85.60																				

Hole No. _____ Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

LITHOGEOCHEMISTRY

Lara project

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
871611	31.2	34.2																				
871612	65.3	68.3																				
871613	99.7	102.7																				

Hole No. 87-161 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

DRILL HOLE RECORD

PROJECT NAME :	LARA PROJECT	DATE STARTED (M/D/Y):	
HOLE NUMBER :	87-161	DATE COMPLETED (M/D/Y):	
LOCATION :		DATE LOGGED (M/D/Y):	
PROJECT NUMBER :		UNITS (F/M) :	
CLAIM NUMBER :			
PLOTTING COORDS	GRID :	ALTERNATE COORDS	GRID :
	NORTH : 11056.00 N		NORTH : 110 + 56 N
	EAST : 11423.00 N		EAST : 114 + 23 W
	ELEV : 842.00 m		ELEV : 842.00 m
COLLAR BRNG	GRID : ___° __' __"	COLLAR SURVEY (Y/N) :	
	ASTRONOMIC : 205' __"	RQD LOG (Y/N) :	
	COLLAR DIP : -45' __"	PULSE EM SURVEY (Y/N):	
CONTRACTOR :		LOGGED BY :	
CORE STORAGE :		START DEPTH:	
CASING :		FINAL DEPTH: 87.5	
PLUGGED (Y/N) :			
HOLE SIZE :			
PURPOSE/COMMENTS :			

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS

HOLE NO. 87-161

LOGGED BY _____

ABERMIN CORPORATION

ASSAY & GEOCHEMICAL ANALYSIS SUMMARY
LARA PROJECT

DDH 86-1 PHASE I

TOTAL NUMBER OF SAMPLES
Assay Ø
Geochemical 2

ELEMENT ANALYSIS CODING
A Assay
G Geochemical
Gr Geochemical Grind Sample

Report No.	Tag No.	Unit No.	Lith Type	From	To	Meters	Code	Cu	Pb	Zn	Ag	Au	Ba	SG	REMARKS
127-364A		11-1	QEL&T	113.96	115.96	2.00	G	9	<2	36	<0.1	<5	1100		
127-364A		11-2	QEL&T	115.96	117.95	1.99	G	10	<2	42	<0.1	<5	930		

DRILL HOLE RECORD

PROJECT NAME : LARA PROJECT	DATE STARTED (M/D/Y):
HOLE NUMBER : 87-169	DATE COMPLETED (M/D/Y):
LOCATION :	DATE LOGGED (M/D/Y):
PROJECT NUMBER :	UNITS (F/M) :
CLAIM NUMBER :	

PLOTTING COORDS		ALTERNATE COORDS	
	GRID :		GRID :
	NORTH : ____.___		NORTH : _____+___
	EAST : ____.___		EAST : _____+___
	ELEV : _____.___		ELEV : _____.___

COLLAR BRNG		
	GRID : ___° __' __"	COLLAR SURVEY (Y/N) :
	ASTRONOMIC : 205 __' __"	RQD LOG (Y/N) :
	COLLAR DIP : -45 __' __"	PULSE EM SURVEY (Y/N):

CONTRACTOR :	LOGGED BY :
CORE STORAGE :	START DEPTH:
CASING :	FINAL DEPTH: 254.8
PLUGGED (Y/N) :	
HOLE SIZE :	

PURPOSE/COMMENTS :

DIRECTIONAL DATA: A = Acid Test, L = Light Log, M = Multishot, T = Tropari

DEPTH (m)	TYPE A/L/M/T	ASTRONOMIC AZIMUTH	DIP	FLAG	COMMENTS
46.9	A		48	OK	
102.4	A		44	"	
149.4	A		43	"	
253.0	A		46.5	"	

HOLE NO. 87-169

LOGGED BY _____

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
871691	31.0	34.0																				
871692	64.4	67.4																				
871693	97.8	100.8																				
871694	132.0	135.0																				
871695	160.1	163.1																				
871696	193.2	196.2																				
871697	219.5	222.5																				
871698	247.1	250.1																				

Hole No. 169 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT ™ — BRIDGEPORT, RICHMOND

Lara

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14																							
13223	44.7	45.2																					

HOLE NO. 87-177

PAGE

ZIPPY PRINT PRINT RICHMOND

177

0 – 51

Felsic tuff, weakly QP Tuff

51 – 53

Fragmental Felsic Tuff Lap T.

53 – 57.6

Felsic Tuff QP Tuff weakly QP

57.6 – 61.7

Diorite.

61.7 – 66.45 FT QP Tuff weakly QP

66.45 – 68.5

Felsic Tuff Green mottled pseudofragmental diss Sphalerite mineralization 66.45 to ≈ 67.3 mafic Tuff. also w/ sp.

68.5 – 88.8

QP Tuff mottled pseudofragmental. trace sp at 75m. 80.2.

84.05 – 86.1 mafic Ash/Tuff w/ sp
massive po vn at 85.2 – 85.35

88.8 – 96.3

Tertiary event hornblende Porphyry dyke.

96.3 – 124.6

QP Tuff massive quite siliceous looking. Becoming mottled looking below 104m & weaker QP.

124.6 – 128.2 ~~cut~~ from original logs.
Tertiary dyke label Po mineralization

128.2 – 135 QFP Xstal Tuff

135.0 – 173.2
Diorite.
Hornblend Rylens below ≈ 151m with QP Seriens

48.7 – 45.2
And Ash 1% v fine reddish sp.

66.45 – 67.44 And Ash & sp

67.44 – 68.5 FT
green mottled pseudofrag. w/ diss sp.

68.5

Check

173.2 – 200.86 EOH

QP Tuff Patchy mottled.

Zone Hunger

45m

5 50cm

258

17.4 QP

0 – 57

57 – 108 (33m) AND

108 – 400 QP + QFP

make Sulfers

66-67

ABERMIN CORPORATION

ASSAY & GEOCHEMICAL ANALYSIS SUMMARY
LARA PROJECT

DDH 87-17 PHASE I

TOTAL NUMBER OF SAMPLES
Assay 3
Geochemical 22

ELEMENT ANALYSIS CODING
A Assay
G Geochemical
Gr Geochemical Grind Sample

Report No.	Tag No.	Unit No.	Lith Type	From	To	Meters	Code	Cu	Pb	Zn	Ag	Au	Ba	SG	REMARKS As	Bi	Te	Sb	Mo	Hg
1274676		8		66.44	67.44	1.00	G	240	3	3000	0.10	<5			19	<1	.4	<2	3	
1271021B		9		67.44	68.98	1.54	G	130	7	1750	<0.10	<5	830							
1274676		10		68.98	69.68	0.70	G	155	8	425	<0.10	<5			12	<1	<.2	<2	2	
1274676		14-1		84.15	84.35	0.20	G	2400	1000	5250	1.00	<5			5	<1	.6	<2	6	
1274676		14-2		84.35	84.95	0.60	G	260	5	192	<0.10	<5			4	<1	<.2	<2	3	
1274676		14-3		84.95	85.66	0.71	G	184	10	225	<0.10	<5			3	<1	<.2	<2	3	
1274676		14-4		85.66	86.12	0.46	G	305	133	2000	<0.10	<5			5	<1	.7	4	4	
1274676		16-1		88.94	90.10	1.16	G	70	8	165	<0.10	<5			6	<1	3.3	<2	3	
1274676		16-2		90.10	90.87	0.77	G	75	4	143	<0.10	<5			12	<1	.5	<2	2	
1274676		16-3		90.87	92.10	1.23	G	90	3	700	<0.10	<5			10	<1	.2	<2	3	
1274676		16-5		94.65	96.23	1.58	G	183	<2	1150	<0.10	<5			6	<1	.2	<2	2	
1274676		20-1		123.65	125.50	1.85	G	610	5	108	<0.10	<5			2	<1	<.2	<2	2	
1274676		20-2		125.50	127.20	1.70	G	540	5	46	<0.10	<5			4	<1	<.2	<2	2	
1274676		20-3		127.20	128.20	1.00	G	490	2	113	<0.10	<5			4	<1	.2	<2	2	
1274676		24-2		151.25	152.90	1.65	G	250	2	75	<0.10	<5			12	<1	<.2	<2	2	
1274676		24-4		153.94	156.36	2.42	G	510	<2	80	<0.10	<5			9	<1	.3	<2	2	

ABERMIN CORPORATION

ASSAY & GEOCHEMICAL ANALYSIS SUMMARY
LARA PROJECT

DDH 817 PHASE I

TOTAL NUMBER OF SAMPLES
Assay ____
Geochemical ____

ELEMENT ANALYSIS CODING
A Assay
G Geochemical
Gr Geochemical Grind Sample

Report No.	Tag No.	Unit No.	Lith Type	From	To	Meters	Code	Cu	Pb	Zn	Ag	Au	Ba	SG	REMARKS As	B	Te	Sb	Mo	Hg
1274676		26-1		161.25	161.67	0.42	G	540	<2	79	0.30	<5			+1000	<1	.6	120	3	
1274677	11133	26-2		161.67	162.28	0.61	A	163	5	48	1.40	<5			+2000	<2	<10	703	3	+5000
1274677	11134	26-3		162.28	163.14	0.86	A	393	7	37	<.50	<5			171	<2	<10	<5	<1	280
1274677	11135	26-4		163.14	163.67	0.53	A	357	9	48	2.70	<5			+2000	<2	<10	+2000 .37%	3	+5000
1274676		26-5		163.67	164.94	1.27	G	140	3	51	<0.10	<5			50	<1	<.2	<2	3	
1274676		26-7		165.86	166.02	0.16	G	1300	3	50	<0.10	<5			51	<1	<.2	<2	1	
1274676		26-11		167.40	169.09	1.69	G	160	<2	57	<0.10	<5			20	<1	<.2	<2	1	
1274676		26-12		169.09	170.30	1.21	G	172	<2	55	<0.10	<5			9	<1	<.2	<2	2	
1274676		26-13		170.30	172.68	2.38	G	260	<2	78	<0.10	<5			3	<1	<.2	6	2	

JDK

ABERMIN CORPORATION

MEMORANDUM

DDH R177
MEMO & PETROGRAPHIC REPORT
+ Analyses

September 25, 1987

MEMO TO: R.J. Bailes, B.W. Smee

FROM: D. Blackadar

RE: Lara Project DDH 87R-177 (Tertiary Event)

Target:

DDH R177 was drilled primarily to test a subsidiary IP anomaly lying just north of the major IP anomaly associated with Break 3. VLF, mag and soil geochem values are also anomalous in this area. The mag response here is particularly high, and prior to the drilling of hole 177 was thought to reflect the presence of gabbroic intrusions associated with Break 3. It is now known to reflect at least in part the presence of abundant pyrrhotite associated with a probable Tertiary event.

Geological Summary:

DDH R177 intersected a package of quartz-eye-bearing rhyolites which is cut by a number of igneous bodies including diorite - gabbro intrusives (probable Triassic) and hornblende porphyry dykes which are thought to represent a probable Tertiary event. Microscopic examination of these dykes by Vancouver Petrographics Ltd. Ltd. suggests that they are strongly altered mafic igneous rocks.

Although Gabbro is common throughout the Lara property, porphyry dykes have not been encountered outside of the Break 3 area. These late dykes are distinctly porphyritic with phenocrysts of dark green hornblende and feldspar up to several millimetres in size set in a fine grained, light green epidote-rich matrix. Border phases of these dykes may be brecciated and contain rounded fragments of dyke rock in a fine grained chloritic matrix. This brecciation may be the result of fluidization during emplacement of the dyke, suggesting a high volatile content.

Mineralization and Alteration:

A distinctive polymetallic suite typical of Au-bearing Tertiary systems on Vancouver Island (eg. Mt. Washington) is associated with the porphyry dykes. Although gold values are not anomalous in DDH 177, other elements, noteably Cu, Zn, Ag and As are commonly anomalous. In addition, Pb, Te, Sb, V, Se and Hg occur in anomalous amounts in some samples.

Minerals which typify this late event are abundant dark brown pyrrhotite, with lesser chalcopyrite and pyrite. Minerals which have been identified in lesser quantities include minor red sphalerite and native arsenic and trace galena and altaite (Pb-Telluride). Native arsenic occurs exclusively in quartz veins in unit 26 where it forms a layered colliform intergrowth with an unidentified silvery-black phase. Geochemical and SEM analyses suggest that this unidentified phase may be an antimony mineral.

Mineralization occurs primarily as microstockworks within the dyke rock and in the enclosing volcanics. Ground preparation appears to include strong silicification and brecciation of the relatively brittle host rocks. Pyrrhotite and chalcopyrite locally form massive pods up to 20 cms thick. As & Sb phases appear to be restricted to quartz veins and are probably late in the paragenetic sequence. Drusy calcite occurs in some fractures.

A tentative paragenetic sequence defined primarily on the basis of mineralization in Unit 16 is as follows:

Early
1. Silicification
2. Brecciation
3. Pyrite microveins
4. Calcite-pyr-sp-po-cp-gl
   Local black chlorite. Local epidote alteration of wall rock.
5. Quartz veins with pyrite, minor cp and As-Sb phases. Black chlorite is characteristically present.

Late
6. Pyrite microveins.

Alteration associated with this event includes:

1. Silicification of both dyke rocks and enclosing rhyolite. Many of the rhyolites in DDH 177 are very siliceous, suggesting a strong alteration envelope.

2. Chloritization: Rhyolites are locally chloritized proximal to dyke rocks.

3. Biotitization: Host rocks locally exhibit a brown colouration which is thought to reflect the formation of very fine grained biotite by thermal metamorphism.

4. Carbonatization

Conclusions and Recommendations

DDH R177 appears to have encountered a well developed Tertiary dyke and vein system which is localized along a major structure represented by Break 3. The presence of a major Triassic gabbro body along strike to the east suggests that this major structure was reactivated during the Tertiary.

Although Au values are not anomalous in hole R177, the mineralogy and mode of occurrence of mineralization is typical of Au-bearing Tertiary systems such as Mt. Washington. Further exploration is warranted to test the Au potential of this major structure. Potential exists for a considerable distance along strike and for a minimum of 90 metres across strike.

Vancouver Petrographics Ltd.

JAMES VINNELL, Manager
JOHN G. PAYNE, Ph.D. Geologist
A.L. LITTLEJOHN, M.Sc. Geologist
JEFF HARRIS, Ph.D. Geologist

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SEP 21 1987
ABERMIN CORPORATION

P.O. BOX 39
8887 NASH STREET
FORT LANGLEY, B.C.
VOX 1JO

PHONE (604) 888-1323

Invoice #6635

September 18th, 1987

Report for: Barry Smee,
Exploration Supervisor,
Abermin Corporation,
1500-1075 W. Georgia St.,
Vancouver, B.C.
V6E 3C9

Samples:

4 rock samples for sectioning and petrographic examination.

Samples are numbered as follows: Unit 14-1 84-15m. (A and B); Unit 26-2 162.28m; and Unit 16-3 92.1m. The first three were prepared as polished thin sections and the last as a standard thin section, as per instructions.

Summary:

Petrographic studies generally confirm the field identifications in your covering letter.

The Unit 14-1 sample consists of pyrrhotite-polymetallic base metal mineralization in a calcitic gangue. No tetrahedrite or realgar were seen.

The Unit 26-2 sample is native arsenic.

The Unit 16-3 sample is a strongly altered (epidotized-amphibolitized) porphyritic mafic igneous rock.

Individual petrographic descriptions are attached.

J.F. Harris

J.F. Harris Ph.D.

Unit 14-1 84.15m. (Sample A)

sample: mass pe / ep

Estimated mode

Calcite	54
Sericite	trace
Chlorite	trace
Quartz	trace
Pyrrhotite	42
Sphalerite	4
Chalcopyrite	trace
Galena	trace
Altaite	trace

This sample consists of a simple network/interstitial intergrowth of calcite and sulfides.

The carbonate is an evenly granular, polygonal mosaic, of grain size 0.2 - 1.0mm, having the aspect of a pure calcitic marble. The slide includes sulfide-free patches up to 1 cm or more in size, but, for the most part, the carbonate is strongly impregnated by sulfides.

Sulfides occur as irregular (replacement?) networks - apparently controlled largely by carbonate grain boundaries - coalescing to form more or less pure sulfide clumps up to 2 or 3mm in size. The finer impregnations of sulfides in carbonate range down to 0.05mm in size.

Tiny wisps and pockets of fine-grained sericite, chlorite and quartz are occasionally developed within sulfides or at sulfide/carbonate contacts.

The sulfides consist primarily of pyrrhotite, as compact mosaic aggregates. Minor sphalerite occurs sporadically within the pyrrhotite as fine, semi-coalescent network intergrowths on a scale of 20 - 200 microns.

Chalcopyrite and occasional galena occur as scattered, individual inclusions, 10 - 100 microns in size, in pyrrhotite, and on pyrrhotite/sphalerite contacts

The only other constituent is a bright white mineral, occurring in traces as tiny specks (2 - 20 microns) in galena, sphalerite or pyrrhotite. This was checked by scanning electron microprobe analysis and found to be the lead telluritde, altaite.

Unit 14-1 84.15m. (Sample B)

Estimated mode

Calcite	58
Quartz	30
Chlorite	2
Sericite	2
Pyrrhotite	7
Sphalerite	1
Chalcopyrite	trace
Galena	trace
Pyrite	trace

Sample: calcite / sp, + gl or tt

This slide shows similar mineralogy to Sample A, but different modal proportions.

Sulfides are relatively minor in the portion sectioned. They form semi-continuous network disseminations on a scale down to 20 microns, but with coalescent pockets ranging up to several mm in size.

They consist, as in A, predominantly of pyrrhotite. Accessories, as fine intergrowths in the pyrrhotite,are sphalerite, with chalcopyrite and galena. The latter two show a higher ratio to sphalerite than in Sample A. No altaite was seen, but pyrite - as occasional individual clumps of fine-grained, poorly polished, secondary-looking material - occurs as a trace component in the pyrrhotite.

The gangue assemblage in this slide is much more siliceous. Quartz occurs as scattered anhedral clumps and extensive, diffuse, microgranular, cherty permeations in the calcite. Chlorite and sericite are also relatively more abundant, associated with the siliceous areas as disseminated tiny flakes, and occasionally concentrated as irregular schlieren, possibly reflecting zones of incipient shearing and deformation.

Unit 26-2 162.28m.

Estimated mode

Native arsenic	95
Carbonate	2
Plagioclase	2
Epidote	1
Chlorite	trace

sample: Colliform As-Sb phase

This sample consists almost entirely of a metallic phase which is identified by SEM analysis as metallic arsenic. Minor amounts of Sb are also present, which is normally the case with native As.

The arsenic shows an intricate, micrographic, alloy-like texture, emphasized by its characteristic tendency to tarnish very rapidly in air. However, micro-analyses made at several different points showed no significant difference in the As/Sb ratio, and the material is apparently compositionally homogenous.

A few small patches of non-metallic minerals occur as inclusions in the arsenic. They consist of sparry calcite,and areas of what appear to be altered plagioclase or feldspathic igneous rock, impregnated by fine-grained epidote, carbonate and chlorite.

This sample provides no evidence re mode of occurrence or associated ore minerals.

Unit 16-3 92.1m. ALTERED MAFIC IGNEOUS ROCK

Estimated mode

Plagioclase	27
K-feldspar	2
Epidote	35
Actinolite	35
Chlorite	1
Sphene) Leucoxene)	trace
Sulfides	trace

sample : Dyke Rock.

This is a heterogenous, strongly altered rock.

In part it displays a remnant porphyritic texture. Original phenocrysts, 1 - 3mm in size, are now totally pseudomorphed by colourless to very pale green actinolitic amphibole, granular epidote, or combinations of the two. Sometimes these contain minor intergrown K-feldspar or remnants of plagioclase. Some of the original phenocrysts were apparently feldspar, whilst others may have been augite or hornblende.

They are set in a groundmass which is densely pervaded by clusters of diffuse, fine-grained epidote, and streaky concentrations of acicular actinolite. Occasional wisps of felted chlorite and flecks of sphene/leucoxene occur. Very fine-grained felsitic plagioclase is sometimes recognisable as an interstitial phase to the pervasive alteration products, and probably represents remnants of the original groundmass.

The slide includes some crudely banded concentrations of epidote/actinolite, and a weak, irregular foliation is defined by the streakiness of the altered groundmass and a tendency to preferred orientation of some altered phenocrysts. These may be indications of shearing, or possibly original flow structures.

At one end an area of somewhat different mineralogy, including a higher proportion of recognizable plagioclase, and a more patchily green amphibole (altered hornblende) is developed. This appears to have defined outlines, and may be a coarse xenolith.

Traces of sulfides (pyrite?) are present, as random disseminations and as fine-grained, irregular impregnations of epidote clumps.

This rock appears to be a strongly altered, mafic igneous flow or minor intrusive.

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Telex: 04-352667

BONDAR-CLEGG

Geochemical Lab Report

REPORT: 127-4676

PROJECT: LARA

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ag PPM	As PPM	Te PPM	Bi PPM	Au PPB	Sb PPM
D2 DDH87-R177 8		240	3	3000	3	0.1	19	0.4	<1	<5	<2
D2 DDH87-R177 10		155	8	425	2	<0.1	12	<0.2	<1	<5	<2
D2 DDH87-R177 14-1		2400	1000	5250	6	1.0	5	0.6	<1	<5	<2
D2 DDH87-R177 14-2		260	5	195	3	<0.1	4	<0.2	<1	<5	<2
D2 DDH87-R177 14-3		184	10	225	3	<0.1	3	<0.2	<1	<5	<2
D2 DDH87-R177 14-4		305	133	2000	4	<0.1	5	0.7	<1	<5	4
D2 DDH87-R177 16-1		70	8	165	3	<0.1	6	3.3	<1	<5	<2
D2 DDH87-R177 16-2		75	4	143	2	<0.1	12	0.5	<1	<5	<2
D2 DDH87-R177 16-3		90	3	700	3	<0.1	10	0.2	<1	<5	<2
D2 DDH87-R177 16-5		183	<2	1150	2	<0.1	6	0.2	<1	<5	<2
D2 DDH87-R177 20-1		610	5	108	2	<0.1	2	<0.2	<1	<5	<2
D2 DDH87-R177 20-2		540	5	46	2	<0.1	4	<0.2	<1	<5	<2
D2 DDH87-R177 20-3		490	2	113	2	<0.1	4	0.2	<1	<5	<2
D2 DDH87-R177 24-2		250	2	75	2	<0.1	12	<0.2	<1	<5	<2
D2 DDH87-R177 24-4		510	<2	80	2	<0.1	9	0.3	<1	<5	<2
DDH87-R177 26-1		540	<2	79	3	0.3	>1000	0.6	<1	<5	120
D2 DDH87-R177 26-5		140	3	51	3	<0.1	50	<0.2	<1	<5	<2
D2 DDH87-R177 26-7		1300	3	50	1	<0.1	51	<0.2	<1	<5	<2
D2 DDH87-R177 26-11		160	<2	57	1	<0.1	20	<0.2	<1	<5	<2
D2 DDH87-R177 26-12		172	<2	55	2	<0.1	9	<0.2	<1	<5	<2
D2 DDH87-R177 26-13		260	<2	78	2	<0.1	3	<0.2	<1	<5	6

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BONDAR-CLEGG

Certificate of Analysis

REPORT: 627-4222

PROJECT: LARA

SAMPLE NUMBER	ELEMENT UNITS	Sb PCT
D2 D-177 11135		0.37

Registered Assayer, Province of British Columbia

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Geochemical Lab Report

REPORT: 127-4222

PROJECT: LARA

SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM	Hg PPB	Au PPB
D2 D-177 11133		3.89	61	>2000	<10	<10	<10	703	<5	<10	>5000	<5
D2 D-177 11134		4.16	57	171	<10	<10	<10	<5	12	<10	280	<5
D2 D-177 11135		4.14	55	>2000	<10	<10	<10	>2000	<5	<10	>5000	<5

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Geochemical Lab Report

REPORT: 127-4222

PROJECT: LARA

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Bi PPM
D2 D-177 11133		163	5	48	3	18	14	23	1334	<1	1.4	<2
D2 D-177 11134		393	7	37	<1	25	16	30	1009	<1	<0.5	<2
D2 D-177 11135		357	9	48	3	28	20	30	1245	4	2.7	<2

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 7.01	<OB>							
7.01 to 18.90	<Diorite>	dark green	fine to course grained,	Massive; Kormitsen				
18.90 43.05	Felsic Tuff <FTuff>	white to very light grey,	fine grained	Thick bedded, moderate to locally strongly foliated; rare quartz eyes to 1mm; very fine grained granular appearance local Ash;		moderate to strongly developed sericite on foliation surfaces; strongly bleached; local intense	2-3% pyrite; disseminated, laminated; local stringers; minor chalcopyrite	local weak mottled appearance
43.05 - 53.05	Felsic Tuff <FTuff>	light grey, weak green cast	fine grained	Thick bedded; moderately foliated; rare quartz eyes to 1mm; fine grained granular appearance		weak to moderate sericite development on foliation surfaces;	2-3% pyrite; disseminated, laminated and stringers; minor chalcopyrite	less altered version of the above interval;
				47.85 to 49.38			5% pyrite, course grained stringers;	
				49.38 to 53.05 interval look much more intermediate in composition		minor chlorite development on foliation surfaces		

HOLE NO 87-18A

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
53.06	Andesite	light to	fine to	Thick bedded; moderately foliated;		moderate to localy well	1-2% pyrite, disseminated	
66.86	Lithic Tuff	medium	medium	very granular in appearance;		developed chlorite development	patchy and local stringers	
		green	grained			on foliation surfaces		
	(AndLT)							
				64.90 to 65.84 , Fault, local gouge				
				extreme core loss				
66.86 to	Andesite	light	fine	Thick bedded; moderate to strongly		moderate to well developed	2-3% pyrite, disseminated, laminated	Possible intermediate
80.12	Lithic Tuff	green	grained	foliated; granular in appearance		chlorite on foliation surfaces	bedded? local chalcopyrite	foliation? bedding localy
								contorted;
	(AndLT)							
				70.30 to 70.40 Fault, gouge				
							71.99 to 72.88	
							5 to 10% pyrite, 1% chalcopyrite	minor kink folding
							bedded? laminated? stringers? localy siliceous	
							72.88 to 74.17	
							2-3% pyrite, trace chalcopyrite	
							patchy	
							74.17 to 75.34	
							60% pyrite, 1-2% chalcopyrite; localy coarse grained	
							bedded? stringers? localy siliceous	
				75.34 to 80.12				
				appears more intermediate.				
				76.45 to 76.56 Fault, gouge				

HOLE NO 87-184

PAGE 2

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14462	66.86	69.86																				

Hole No. 87-184 Entered by _____ Logged by _____ Page No. _____

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
3.70	<OB>							
3.70 to	Felsic Tuff	light to	medium	Thick bedded, moderately bedded; very		weak to moderate sericite	<1% pyrite, disseminated; rare	weak mottled appearance
19.55		medium	grained	granular appearance; 2 to 3%		development on foliation	stringers;	
	<FTuff>	grey; weak		quartz eyes to 3 mm, rare well		surfaces		
		green cast		defined fragments to 2 cm;				
							9.95 to 11.36	
				13.90 to 14.07 Fault, very	50°		3-5% pyrite, minor chalcopyrite	
				strongly sheared, abundant gouge			stringers	
				14.47 to 14.77 Fault, very strongly			11.36 to 12.37	
				sheared, abundant gouge			3% pyrite disseminated, and in	
							stringers, minor chalcopyrite	
							12.37 to 12.86	
							25 to 30% pyrite, minor chalcopyrite;	
							stringers	
19.55	Intermediate	light to	fine	Very thin to thinly bedded; weak to		weak to moderate chlorite	1-2% pyrite; fine grained;	
31.40	Ash to lithic	medium	to medium	moderately foliated; 5 to 10%		development on foliation	disseminated, laminated; bedded	
	Tuff	green	green	interbedded chert and felsic		surfaces	local stringers;	
				Ash; 25 to 30% interbedded Andesite				
	<IntAsh-LT>			Ash and lithic Tuff;				
				CAB 19.55	32°			
				CAB 20.10	50°			
				CAB 20.81	50°			

HOLE NO 87-188

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				CAB 22.50	55°	—		
				22.50 to 23.65			3 to 5% pyrite 1-2% chalcopyrite, predominately in stringers	
				25.61 CAB	70°			
				31.39 to 31.40 Fault, gouge	40°			
31.40	Felsic Tuff	white	fine to	Thick bedded; moderate to		intensly bleached; moderate	1-2% pyrite, minor chalcopyrite	
41.17			medium	strongly foliated, weak		to intense sericite development	predominately in stringers.	
	(F Tuff)		grained	mottled appearance; rare QE to 2mm;		on foliation surfaces		
				37.40 to 37.46 Fault, gouge				
41.17	(Diorite)	dark	fine to	Massive; moderate to foliated;		Strongly calcareous		
60.70		green	medium	abundant leucoxene's;				
			green	abundant carbonate patches;				
				47.17 to 47.78 quartz vein				
60.70	Felsic Tuff	white to	fine to	Thick bedded; moderate to		intensly bleached; moderate	1-2% pyrite, trace	Same as the interval
90.73	(F Tuff)	very light	medium	strongly foliated; weak		to intense sericite development	trace chalcopyrite	between 31.40 and
		grey	grained	mottled appearance, rare		on foliation surfaces		41.17 m.
				distinct fragments, these				foliation locally contorted
				may be tectonic though;				
				local QE to 2mm;				
				66.02 to 68.02 (Diorite)				

HOLE NO 87-188

84. 8024

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				77.92 To 77.98, Fault, gouge.	47°	—		
				82.85 to 82.98, Fault, gouge	50°			
				89.47 to 89.60				
				Andesite Lithic tuff				
				89.60 to 90.00			15 to 20% pyrite, 1-2% chalcopyrite	
							predominately Stringers	
				90.00 to 90.23				
				Intermediate				
90.23 to	Andesite	medium to	medium	Thick bedded, moderately foliated		weak chlorite development	1-2% pyrite, disseminated,	
→	Lithic Tuff	dark	grained	weak shear texture throughout		on foliation surfaces	patchy	
		green						
	(Andesite)							

HOLE NO 87-148

PAGE 3

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm·T Ag	gm·T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14464	9.95	11.36																					
14465	11.36	12.37																					
14466	12.37	12.96																					
14467	19.55	21.00																					
14468	21.00	22.50																					
14469	22.50	23.65																					
14470	23.65	25.00																					
14471	31.40	32.61																					
14472	32.61	34.14	→		→ ICP Litho Package																		
14473	34.14	35.77																					
14474	35.77	38.20																					
14475	38.20	39.26																					
14476	39.26	41.17																					
14477	76.28	77.22																					
14478	89.60	90.23																					

HOLE NO 87-188

PAGE

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM ( )	TO ( )	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
14463	5.18	7.62																				
14472	32.61	34.14																				

Hole No. 87-188 Entered by _____ Logged by _____ Page No. _____

ZIPPY PRINT — BRIDGEPORT, RICHMOND

87-190

Corrected in W262 & W262B.

①

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION		REMARKS
0.00 to 5.95	<OB>					—		
5.95 to 10.05	Felsic Tuff <F Tuff>	light greyish green	medium grained	Thick bedded; moderately foliated; very granular in appearance; 5 to 10% white to weakly epidote altered fragments? and or feldspar x's 1.5 to 2mm;		moderate sericite development on foliation surface	<1% pyrite, disseminated;	possible LaT; and more intermediate in composition
10.05 13.95	Intermediate Ash and Chert <Int Ash-Chert>	light greenish grey	fine to medium	Moderately bedded; moderately foliated; Interbedded sequence of Intermediate Ash and Andesitic Ash to lithic Tuff and chert, minor felsic ash; bedding contorted in chert intervals		moderate to well developed sericite and chlorite on foliation surfaces	minor disseminated pyrite	
				CAB at 13.00m	41°			
				CAB at ~~14.75m~~ 14.75	33°			
13.95 to 44.00	Felsic Tuff to Ash <F Tuff-Ash>	white	fine to medium grained	Thick bedded; moderate to strongly foliated; rare quartz eyes to 2mm;		intensely bleached; intense sericite development on foliation surfaces;	1% pyrite; disseminated, rare stringers	
				13.95 to 16.15 intensely sheared			5 to 7% pyrite; stringers	

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(2)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				27.50 to 29.04, minor shear, interval locally milled;				
				36.00 to 39.97				
				<5% light green epidote altered lithic fragments to 4mm; local epidized feldspars;				
				39.97 to 40.57		intensly silicified;	10% pyrite, minor chalcopyrite;	
				40.57 to 43.32.				
				3-5% quartz eyes to 2mm; 1-2% feldspar xls to 1mm; interval moderate to strongly sheared;				
				43.32 to 44.00				
				Diorite.				
44.00 to →	Andesite Lithic Tuff <Ank 17>	light to medium green	medium grained	Thick bedded; weak to moderately foliated; very granular in appearance		poor chlorite development on foliation surfaces; weak pervasive epidote alteration;	1% disseminated pyrite, trace chalcopyrite; rare stringers	
				62.30 to 66.44		locally strongly bleached	2-3% pyrite disseminated, patchy and in stringers, common chalcopyrite	

HOLE NO

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(3)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				75.49 to 77.91		local weak silicification		

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 4.42	<OB>							
4.42 to 6.70	Felsic Ash <FAsh>	white	very fine grained	Moderately bedded; moderately foliated		intensely bleached; intense sericite development on foliation surfaces	1% pyrite; fine grained, disseminated; trace chalcopyrite and sphalerite	
				6.60 to 6.70 very strongly sheared, abundant gouge				
6.70 to 31.90	Felsic Lithic Tuff; <FLT>	light to medium grey, weak greenish	medium grained	Thick bedded; moderately foliated; very granular in appearance; minor quartz eyes to 2mm;		moderate sericite development on foliation surfaces, local chlorite	2% pyrite; predominately disseminated; rare stringers; trace chalcopyrite and sphalerite	Possible intermediate in composition
				31.31 to 31.90 Fault; intensely sheared abundant gouge				
31.90 to 38.28	Intermediate Ash to LT <Int Ash-LT>	light greenish grey	fine to medium grained	Very thin to moderately bedded; moderately foliated; 10 to 15% interbedded chert and felsic Ash; 15 to 20% Andesite Ash to lithic Tuff;		moderate sericite and chlorite development on foliation surfaces	1-2% pyrite; fine grained, disseminated, bedded, laminated; local trace chalcopyrite	
				CAB at 32.63	46°			
				CAB at 37.63	56°			
				35.77 to 36.00 Fault; intensely sheared local gouge	60°			

HOLE NO. PAGE

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
38.28 to	<Diorite>	dark	coarse	Karmutsen; Massive; well		—		
52.19		green		developed chill margins				
52.19 to	Intermediate	light	fine to	Very thin to moderately bedded;		moderate to well developed	1-2% pyrite; fine grained; disseminated;	
55.08	Ash to lithic	greenish	medium	moderately foliated; 5-10% interbedded		sericite and chlorite on foliation		
	Tuff	grey	grained	chert; 25 to 30% felsic Ash interbedded		surfaces		
	<Int Ash-LT>							
				CAB at 54.95	64°			
55.08	Felsic Ash	white	very	Thick bedded; massive; ~~[illegible]~~		Intensely bleached; intense	Trace disseminated pyrite	foliation locally contorted
72.23			fine	~~strongly foliated~~;		sericite development on foliation		
	<FAsh>		grained			surfaces;		
				55.08 to 56.18			1-2% pyrite; predominately stringers	
72.23	Felsic Tuff	light to	medium	Thick bedded; moderate to strongly		moderate sericite development	1-2% pyrite, disseminated and	Possibly intermediate
81.07		medium	grained	foliated; granular in appearance		on foliation surfaces; minor	in stringers	
	<FTuff>	grey				chlorite;		
				76.52 to 81.07			5% pyrite, predominately stringers	
				interval contains 15 to 20% felsic				
				Ash and chert			80.20 to 80.50	
							Massive pyrite	

HOLE NO 87-191

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
81.07 to	Andesite	medium	medium	Thick bedded, massive, moderately		moderate chlorite development	2-3% pyrite, disseminated and	
→	Lithic Tuff	green	grained	foliated;		on foliation surfaces	in stringers. local trace	
							chalcopyrite.	
	(And LT)							

HOLE NO 87-191

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ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14439	31.90	33.46																					
14440	33.46	35.15																					
14441	35.15	36.69																					
14442	36.69	38.38																					
14443	52.19	53.19																					
14444	53.19	54.15																					
14445	54.15	55.08																					
14446	76.52	78.42																					
14447	78.42	79.98																					

HOLE NO 87-191

PAGE

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(1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	(OB)							
3.66								
3.66 to	Felsic Ash	white	fine to	Thick bedded, massive; moderate to		intensely bleached; moderate to	1-2% pyrite; disseminated, minor	strongly oxidized;
6.63	to Tuff		medium	strongly foliated;		strong sericite development on	stringers	
			grained			foliation surfaces		
	(Ash-Tuff)							
6.63 to	Felsic Tuff	light	medium	Thick bedded, massive; moderately		moderate sericite, minor	1-2% disseminated pyrite, minor	possible intermediate
12.98	(F Tuff)	greyish	green	foliated; 3 to 5% quartz eyes to 2 mm;		chlorite development on foliation	stringers	
		green		<5% very weakly epidote altered		surfaces		
				lithic fragments?, and or feldspar				
				xls.				
12.98 to	Intermediate	light	fine	Very thin to moderately bedded;		moderate to well developed	2-3% pyrite; fine grained	local F_1 and F_2 folds
34.81	Ash to Lithic	grey		interval contains 10 to 15%		chlorite on foliation	disseminated and bedded	
	Tuff			chert and felsic ash, 15% Andesite		surfaces;		
	(Int Ash			Lithic Tuff.				
	-Tuff)			CAB at 14.60	75°			
				CAB at 17.80	56°			
							19.52 to 20.74	
				minor shear and gouge between			5% pyrite stringers	
				15.40 to 15.85				
				16.35 to 16.45				
				20.74 to 21.24				
				CAB at 22.43	70°			

HOLE NO 87-193

PAGE (1)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				24.25 to 27.95				
				Andesite lithic Tuff				
				CAB 29.10	35°			
34.81	Felsic Ash	white	fine to	Thick bedded, moderate to		intensely bleached, intense	1 to 2% pyrite; disseminated;	
58.50	to Tuff		medium	strongly foliated; minor quartz		sericite development on	local stringers; trace chalcopyrite	
			grained	eyes to 1mm;		foliation surfaces		
	(FAsh-Tuff)							
58.50 to	Intermediate	light to	medium	Thick bedded; moderate to strongly		moderate to well developed	minor disseminated pyrite;	
68.30	Tuff	medium	grained	foliated; 2-3% quartz eyes to		sericite and chlorite	rare stringers;	
	(Int Tuff)	grey;		2mm; minor weakly epidized		on foliation surfaces		
		weak green		lithic fragments and or feldspar				
		cast		xls; very granular in appearance;				
				66.62 to 67.20				
				Diorite, fine to medium grained;				
				local leucoxene				
				67.31 to 68.30				
				Fault; mylonized interval;				
68.30	Intermediate	medium	fine to	Thin to moderate bedded, moderately		moderate chlorite development	2-3% disseminated pyrite.	
72.28	Ash to	grey green	medium	foliated; very gritty in		on foliation surfaces	trace chalcopyrite.	Same as interval between
	Tuff		grey weak	appearance; interval contains				76.52 and 81.07 m in DDH
	(Int Ash-		green cast	minor Chert and felsic Ash;				87-191
	Tuff)							

HOLE NO 87-193

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(3)

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
72.28 to	Andesite	medium	medium	Thick bedded; moderately foliated;		weak to moderate chlorite	1-2% pyrite; disseminated, local	
→	Lithic Tuff	green	grained			development on foliation	stringers; trace chalcopyrite	
						surfaces		
	(AndLT)							
				72.28 to 72.41				
				Fault, mylonized interval;				

HOLE NO 87-193

PAGE (3)

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14448	13.25	14.64																					
14449	14.64	15.52.																					
14450	23.13	24.25																					
14451	24.25	25.41																					
14452	25.41	27.95																					
14453	27.95	29.25																					
14454	29.25	30.37																					
14455	30.37	31.15																					
14456	68.30	69.65																					
14457	69.65	70.92																					
14458	70.92	72.28																					

HOLE NO 87-193

PAGE

ZIPPY PRINT – ERIC REPORT RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to	<OB>							
3.04								
3.04	Felsic Tuff	very light	medium	Thick bedded, weak to moderately		moderate to well developed	minor disseminated pyrite;	
16.10		grey	grained	foliated; minor quartz eyes to 2mm;		sericite on foliation surfaces	local trace sphalerite.	
				locally appears very granular;		weak mottled texture; local		
	<F Tuff>			possible shear zones; this gives		patchy bleaching and		
				a coarse fragmental look;		silicification		
							10.10 to 11.37	
							3 to 5% pyrite, predominately	
							stringers	
16.10 to	Felsic	light to	medium	Thick bedded, massive; weak to		weak to moderate sericite	minor disseminated pyrite;	
42.43	Quartz	medium	grained	moderately foliated; 5 to 10%		development on foliation		
	Porphyry	grey		quartz eyes 5mm to 8mm;		surfaces, minor chlorite		
	Tuff			weak granular and mottled				
	<QP Tuff>			appearance;				
42.43	Felsic Tuff	light	medium	Thick bedded; weak to moderately		moderate sericite	2-3% pyrite, fine to medium	
58.61		grey, local	grained	foliated; very granular in		development on foliation	grained; patchy and in	
	<F Tuff>	weak green		appearance, minor quartz eyes		surfaces	stringers, minor chalcopyrite	
		cast		to 1mm;			and sphalerite;	
				45.26 to 45.88			5% pyrite; predominately stringers	

HOLE NO 87-19b

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				52.03 to 53.17			3-5% pyrite, predominately stringers	
				57.89 to 58.61				
				more intermediate to Andesitic in				
				appearance				
58.61 to	Felsic Ash	white to	fine to	Thick bedded; massive; moderate		intensely bleached; intense	1-2% pyrite; fine to medium	
67.41	to LT	very light	locally	to locally strongly foliated;		sericite development on	grained; predominately stringers, minor chalcopyrite and sphalerite	
		grey	medium			foliation surfaces;		
	(FAsh-LT)		grained				59.47 to 60.10	
							2% pyrite, 1% sphalerite, minor	mssx Stringers
							chalcopyrite, predominately	
							stringers.	
							60.10 to 60.90	Stringer
							3 to 5% pyrite; 1% chalcopyrite	mssx Stringers Zone
							2% sphalerite; trace tetrahedrite	
							60.90 to 61.67	mssx Stringers
							2-3% pyrite; 1% chalcopyrite; 1%	
							sphalerite, trace tetrahedrite;	
				65.23 to 67.41				
				5% quartz eyes to 3mm; very				
				granular in appearance.				

HOLE NO 97-196

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
67.41 to	Intermediate	light	very	Very thin to thinly bedded, weak to		weak to moderate Sericite,	3% pyrite, fine grained, laminated	
71.08	Ash	greyish	fine	moderately foliated, 40% interbedded		minor chlorite development	and finely bedded;	
		green	grained	felsic ash		on foliation surfaces		
	(Int Ash)							
				CAB at 69.35	58°			
				CAB at 70.53	50°			
71.08 to	Andesite	light to	medium	Thick bedded, massive; weak to		weak to moderate chlorite	2% pyrite, fine to medium grained;	
→	Lithic Tuff	medium	grained	moderately foliated; very		development on foliation		
		green		granular in appearance		surfaces;		
	(And LT)							
							83.02 to 83.46	
							50% pyrite, stringer	

HOLE NO 87-196

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ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14484	67.41	68.86																					
14485	68.86	70.58																					
14486	70.58	71.08																					

HOLE NO. 87-196

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
1.21	(OB)							
1.21 to	Feldspar	light	medium	Thick bedded; massive; weak to		weak to moderate sericite,	trace pyrite;	
35.95	Porphyry	greyish	to coarse	moderately foliated; 5-10% white to		minor chlorite developed on		
		green	grained	ghosty feldspar xls to 2mm; 10% white		foliation surfaces		
	(FP)			felsic fragments (locally greyish				
				green) to 1½cm, these are				
				generally indistinct; towards base				
				of the interval weak bleaching				
				and patchy silicification;				
35.95	Felsic Tuff	very light	medium	Thick bedded; massive; weak to		moderately bleached,	1% pyrite, fine to medium	
47.19	(FTuff)	to medium	grained	moderately foliated; minor		moderate sericite development	grained; disseminated, local	
		grey		quartz eyes 1mm to 2mm;		on foliation surfaces,	stringers;	
				local weak transmental bands				
				43.20 to 47.19				
				Felsic Ash (FAsh)		intense sericite development	1-2% pyrite, disseminated,	
				white, fine grained;		on foliation surfaces;	laminated? bedding?	
				44.84 to 46.20 Fault, intensely	35°			
				sheared, abundant gouge;				
							46.93 to 47.19	
							1-2% pyrite, 1% chalcopyrite; minor galena	
							1-2% sphalerite; bedded?	

HOLE NO 87-204

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
47.19 to	Quartz Porphyry	light to	medium	Thick bedded; massive; moderately		moderate to well developed		The same as the interval
54.08	Felsic Tuff	medium	grained	foliated; 5 to 10% quartz eyes		sericite on foliation surfaces		between 37.10 and 54.94 m in
		grey; weak		from 1mm to 5mm; minor white				DDH 205
	(QP Tuff)	greenish		to glassy feldspar xls to 1mm;				
				minor light greenish grey felsic				
				fragments to 3mm;				
				52.80 to 53.10 Fault, strongly sheared				
				abundant gouge.				
				62.08 to 62.23 Fault, strongly				
				sheared, abundant gouge.				
67.08 to	Felsic Tuff	light to	medium	Thick bedded; massive; moderately		weak to moderate sericite, minor	2-3% pyrite disseminated, patchy	
76.21	(F Tuff)	medium	grained	foliated; minor quartz eyes to		chlorite developed on foliation	and in stringers	
		grey		3mm; granular in appearance		surfaces;		
76.21 to	Quartz Porphyry	white to	medium	Thick bedded; massive; moderate to		strong to intensely bleached;	1-2% pyrite, disseminated, patchy;	
89.02	Felsic Tuff	very light	grained	strongly foliated; 5 to 10% quartz		moderate to intense sericite	rare trace chalcopyrite;	
		grey		eyes 1mm to 8mm;		development on foliation		
	(QP Tuff)					surfaces;		
				86.00 to 86.10 Fault, gouge; intensely	30°			
				sheared;				

HOLE NO 87-204

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
89.02	Felsic Tuff	white to	fine to	Moderately bedded, moderate to		locally strongly bleached,	2-3% pyrite, disseminated, patchy	
94.14		light grey	medium	locally strongly foliated, rare		moderate to intense sericite	local stringers, possibly laminated	
	(FTuff)		grey	quartz eyes to 1mm,		development on foliation surfaces,	or bedded, trace chalcopyrite.	
				89.65 to 89.80, Fault, abundant gouge	10°			
94.14	Andesite	light to	fine to	Thick bedded, moderate to locally		moderate to well developed	1-2% pyrite, disseminated,	foliation locally contorted,
118.85	Lithic Tuff	medium	medium	strongly foliated,		chlorite on foliation surfaces	patchy local stringers	local F3 folds
		green	grained					
	(AndLT)							
				97.70 to 98.83, local gouge seams				
				to 10cm,				
				107.55 to 108.29				
				local gouge seams	70°			
				117.00 to 117.10 Fault, gouge	50°			
118.85	(Diorite?)	medium to	fine to	Massive, Equigranular				minor quartz veins, local
163.53		dark	coarse					trace chalcopyrite and
		green	grained					pyrrhotite
				122.40 to 122.49				
				90° to quartz vein,			trace chalcopyrite	
				125.41 to 130.00				
				fine grained diorite or Andesite				
				inclusion				

HOLE NO 87-204

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				132.00 to 132.40				
				Quartz vein, [illegible]			minor chalcopyrite, phyrrhotite	

HOLE NO 87-204

PAGE 4

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14479	43.20	45.41																					
14480	45.41	46.93																					
14481	89.02	90.32																					
14482	90.32	91.44																					
14483	91.44	93.86																					

HOLE NO. ~~BH~~ 87-204

PAGE

87-205

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
9.30	(OB).							
9.30 to	Feldspar	light	medium	Thick bedded, massive; weak to		moderate sericite, minor chlorite	trace pyrite; rare cubes to	
17.27	Porphyry	greyish	to	moderately foliated; 5% to 8% white to		developed on foliation surfaces;	1cm;	
		green	coarse	ghosty feldspar xls to 3mm; 5% white to				
	(FP)		grained	lithic fragments to 3mm; 5% to 10%				
				white to greyish green lithic				
				fragments 5 to 1cm;				
				14.45 to 14.86: Fault				
				intensly sheared, abundant gouge.				
				17.17 to 17.27: Fault; intensly sheared,				
				abundant gouge.				
17.27	Felsic Tuff	light to	medium	Thick bedded, massive; moderately		moderate sericite development	3% pyrite; fine to medium grained,	
37.10	(FT)	medium	grained	foliated; 2 to 3% quartz eyes,		on foliation surfaces; locally	disseminated; local stringers,	
		grey		1mm to 3mm; minor white to		patchy green carbonate	local trace chalcopyrite	
				ghosty feldspars to 1mm;		stringers; some of these	and sphalerite.	
						appear to be after feldspars		
				17.27 to 18.67 Fault; intensly				
				sheared, abundant gouge.				
				18.67 to 22.25: moderate to well				
				developed shear texture				

HOLE NO 87-205

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				31.82 to 37.10		weakly bleached, moderate to		
						locally well developed sericite on		
						foliation surfaces		
				35.42 to 37.10				
				weak to moderate shear texture; may				
				possibly contain 5-10% white				
				bleached felsic fragments to 2 mm.				
37.10 to	Quartz	light to	medium	Thick bedded, massive moderate to		moderate to locally well	trace disseminated pyrite	
59.94	Porphyry	medium	grained	locally well foliated; 5 to 10%		developed sericite on foliation		
	felsic Tuff	grey;		quartz eyes (1mm to 7mm);		surfaces; local minor chlorite		
		weak		possibly 1-2% chloritized				
	(QPT(f))	green cast		feldspar x's 1 to 5 mm; 1% to locally				
				2% medium green lithic fragments				
				to 5 mm, towards the base of				
				this interval 5 to 10% dark grey				
				to green green lithic fragments				
				to 4 mm (49.37 m to 56.21 m)				
				the interval looks much more				
				intermediate in composition				
				49.37 to 56.21 interval also				
				contains 1-5% white to				
				greyish to chloritized feldspar				
				x's to 5 mm;				
				56.21 to 59.94				

HOLE NO 87-205

PAGE 2

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
59.94 to	Felsic Tuff	~~[illegible]~~	fine to	Thick bedded, massive; weak to		well developed sericite on foliation	1-3% pyrite; fine to medium	interval has a weak
86.26		~~[illegible]~~ light	medium	moderately foliated; minor quartz		surfaces; moderate to strongly	grained; disseminated and in	mottled appearance
	<F Tuff>	grey	grained	eyes to 1mm; the interval has a		bleached, locally	stringers; local patches; trace	
				weak granular appearance.;			chalcopyrite.	
				66.31 to 66.05			3-5% pyrite, minor chalcopyrite, trace	
							sphalerite	
				→ local well defined bleached,				
				weakly silicified felsic lapilli to				
				3cm;				
				81.75 to 83.06			10% pyrite, fine to medium grained;	
							1% sphalerite; in stringers	
				83.06 to 84.79			5% pyrite, trace sphalerite, chalcopyrite	
				84.79 to 85.33			1-2% pyrite stringers with minor	
							sphalerite and galena	
86.26 to	Intermediate	light	fine to	Thin to moderately bedded; moderately		moderate to well developed	3% pyrite; fine to medium grained;	bedding locally contorted;
94.47	Ash to lithic	greenish	medium	foliated; interval contains minor		sericite and chlorite on foliation	rare trace chalcopyrite	
	Tuff	grey	grained	interbedded felsic ash;		surfaces		
	<Int Ash-LT>			86.26 to 86.30 fault; gouge.				
				CAB 87.10	33°			

HOLE NO 87-205

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				91.20 to 92.73				
				Predominately felsic Ash to lithic tuff;				
				92.73 to 94.47				
				Diorite				
94.47 to	Andesite	light to	fine	Thick bedded, moderately foliated;		weak to moderate chlorite	3% pyrite; patchy disseminated;	
104.50	Lithic Tuff	medium	to	very granular in appearance;		development on foliation	local stringers; minor	
		green	medium			surfaces	chalcopyrite.	
	(And LT)		grained					
				95.41 to 95.99				
				Rhyolite Tuff				
				95.93 to 95.96 Fault; gouge.				
				96.25 to 96.28 Fault, gouge.				
104.50	(Diorite)	dark	fine to	Massive; hornfelsed; rare				
122.15		green	coarse	andesite inclusions				
			grained					
122.15	Andesite	light to	fine to	Thick bedded, massive, moderately		moderate chlorite development	3% pyrite; disseminated	
129.29	Lithic Tuff	medium	medium	foliated;		on foliation planes	patchy and in stringers	
		green	grained				local chalcopyrite.	
	(And LT)							

HOLE NO 87-205

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
129.39 to	Andesite	medium to	medium	Thick bedded, massive, weak to		weak chlorite development	2-3% pyrite, disseminated,	
	Crystal Lithic	dark	to	moderately foliated.		on foliation surfaces	patchy and stringers	
	Tuff	cream	Coarse					
	(Ard XLT)		grained					

HOLE NO 87-205

PAGE 5

ASSAY SHEET

Sample Number	From ( )	To ( )	Estimate Cu	Estimate Zn	Length ( )	% Cu	% Zn	% Pb	gm/T Ag	gm/T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
14459	86.26	87.95																					
14460	87.95	89.31																					
14461	89.31	91.20																					

HOLE NO 87-205

PAGE 1

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 6.09	(OB)							
6.09 to 21.44	Felsic Tuff to Ash (FTuff-Ash)	white	fine grained	Thick bedded; moderate to strongly foliated; 6.09 to 7.01, very poor recovery; 12.65 to 12.76 Fault, strongly sheared minor gouge; 15.19 to 15.80 Andesite Ash to lithic tuff; 19.50 to 21.33 very strongly sheared, local gouge seams;		intensly bleached; intensl sericite alteration	1-2% pyrite, disseminated, local stringers;	core locaty broken and rubbly
21.44 to 25.14	Andesite lithic Tuff (AndLT)	light green	fine to medium grained	Thick bedded, moderate to strongly foliated, local gouge seams		well developed chlorite on foliation surfaces;	1-2% disseminated fine grained pyrite	

HOLE NO 87-207

PAGE (1)

87-214

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0-2.65	<OB>.							
2.65-21.05	<F Tuff>.	greenish grey.	f-mgr.	massive - weakly foliated. locally has pseudo-fragmental look due to patchy chl veining. - 5% carb specks after fsp. - tr-1% mm sized q's.		<patchy ser, chl>.		
21.05-23.36.	<Py Lithic Tuff>.	light green	f.gr.	finely foliated. 2-3% siliceous grey angular fragments aligned parallel to fol^{n} (2-3mm x 1-2mm). - both contacts sharp.		<M-S ser, chl>	<5% py, 1-2% sph, tr. cp>. - sulphides occur as fine disseminations parallel to fol^{n}.	possible exhalative horizon.! 21.81-23.36- 1.07% Zn over 1.55m.
23.36-36.7.	<F Tuff.>.	light grey.	u.fgr.	generally aphyric with tr. q's; - massive.		<M-S ser> - core a light grey colour due to moderate to strong sericite alteration. - becomes carb rich in bottom 1.0 meter of unit.	<1% diss. py>.	
36.7.	<QP Tuff>	greenish grey	f-mgr.	well-foliated. 3-5% q's. generally mm. sized. - rounded. f.gr, green, foliated m dikes at: 51.85-52.42, 58.0-58.74, 65.8-66.1, 66.75-67.15,		<W-M chl>.	tr. py.	

HOLE NO 87-214

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				thin, v.fgr, green ashy layers (intermediate in composition) at: 75.3 - 75.85 77.26 - 78.18			+84.0 - 88.0+ <1% diss po>	
				88.0 - 88.35 - f.gr. mafic dike with irregular contacts.				
				90.6 - 91.8 - FP dike, mgr, green, massive. - lower contact very indistinct.				
95.0 - 96.9	<FP Dior>	green.	mgr.	5% ragged fsp crystals.				
96.9 - 100.2	<QP Lithic Tuff>	grey	m.gr.	5-7% q's. rounded up to 5mm across. 2-3% felsic fragments elongate in fol^c plane.				
100.2 - 113.4	<M dike>	green.	f-mgr.	- massive - heterogeneous. - locally have inclusions of qp. also have FP patches & siliceous patches - lower contact indistinct.			locally have veinlets with py - po, tr. cp.	- check geochem 99 - 102 for TiO_2.

HOLE NO 87-214

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
113.4 - 119.4	<F Ash, Tuff>	greenish grey.	f.gr.	massive, siliceous 1% q's. - minor thin diorite / mafic dikes throughout.			none.	
119.4 - 141.42. EOH.	<Dior>	green	mgr.	feldspar porphyritic.				

HOLE NO 87-214

PAGE

ZIPPY PRINT ® — BRIDGEPORT, RICHMOND

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS

HOLE NO _____

PAGE _____

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 4.47	(OB)					—		
4.47 to 5.46 m	Rhyolite Quartz Feldspar Porphyry	light green grey	medium grained	moderately bedded, weak to moderately foliated; 5-10% wh to clay altered feldspar xls to 1mm; 5% QF to 2mm; has a weak banded appearance; possible fragments deformed in the foliation plane		weakly developed chlorite and sericite on foliation surfaces		This may be a large fragment from the next interval
5.46 to 19.62	Andesite Lapilli Tuff (Ash LAT)	light green	coarse grained	Thick bedded, moderate to strongly foliated; Matrix is an Andesitic Ash to XLT, locally feldspars are epidote altered; 30 to 35% wh Rhyolite QP to QFP fragments deformed pill to foliation planes from 4mm to 7cm wide, locally this gives the core an interbedded look; Also large FP (Felsic) fragments, to 30cm; between 8.80 to 9.40m may be a large FP fragment CAF at 8.70 9.40 to 9.44 Shear CAF at 9.40 CAF at 15.50	 60° 43° 61°	Andesite Matrix is strongly calcareous large felsic fragments are strongly silicified; Well developed chlorite on fol surfaces	tr disseminated pyrite in matrix local weak laminations	Generally the coarser fragments occur in the upper portion of the interval Has a transitional contact with the underlying interval, over a core width of 10cm;

HOLE NO 87-216

PAGE 1

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
19.62 to	Intermediate	light	fine	Moderately to thickly bedded; moderately		well developed sericite and	1% trace disseminated	has a very granular look.
93.11	Quartz Feldspar	greenish	grained	to locally strongly foliated; 5%		minor chlorite on foliation	pyrite.	
	Porphyry	green		wh to glassy feldspar xls to ½ mm		surfaces; weak to moderately		
	(QFP Tuff)			generally quite intermediate; 5% bloc 10% QE		Calcareous; has a patchy		
				to 1mm (rare 3mm); 5% flattened 1-2mm x		bleaching alteration; minor		
				1cm felsic fragments; ~~below 39.27~~		silicification; and a veiny or patchy		
				~~up to 10% shear~~		chlorite development below 39.27		
						about (10%) carbonate specks and veinlets		
				20.40 to 20.93				
				Andesite Ash				
				CAB at 20.93	65°			
				21.04 to 21.10 Fault	85°			
				CAF at 28.05	60°			
				28.74 to 28.80 shear	35°			
				41.26 to 45.10		Interval is more intensely		
				QE are generally 3mm in size		bleached; well developed		
				and locally to 6mm		sericite and minor chlorite on		
						foliation plane		
				45.56 to 46.37				
				90% qtz vein, locally sheared.				
				46.70 to 47.76				
				may contain up to 5% flattened felsic				
				fragments				

HOLE NO 216

PAGE 3

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				50.87 to 51.15		—		
				Andesite Ash				
				CAB at 50.87	75°			
				53.75 to 54.90				
				Quartz Vein				
				54.90 to 55.17				
				Andesite Ash				
				CAF 55.03	50°			
				55.17 to 56.26				
				80% quartz veins, strong cpy				
				section 56.00 to 56.26				
				56.26 to 56.38				
				Andesite Ash.				
				66.24 to 66.14				
				Andesite Ash				
				66.40 to 66.60				
				Andesite Ash.				
				CAF 66.70	40			

HOLE NO. 216

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				66.87 to 71.07 (And Ash)		moderate to strongly calcareous;	trace disseminated pyrite	
				Andesite Ash, minor QFP interbeds		abdnt carbonate patches		
				71.07 to 74.37 strongly sheared, core				
				very broken and rubbly				
				~~[illegible]~~				
				~~[illegible]~~				
				~~[illegible]~~				
				74.05 to 78.33 Shear				
				CAF 75.50m	45°			
				81.70 to 96.00m				
				minor Felsic fragments to 2cm				
93.11 to	Felsic lapilli	light gray	coarse	Thick bedded; wk to mod foliated;		wk ser and chl development	trace disc pyr	
97.47	Tuff	green	grained	Matrix is a QFP, 5 to 7% QFP fragm		on fol surf;		
	(Fel LAT)			1mm to 4mm, 5 to 10% felsic				
				to 1/2mm wh - gray to clay and				
				carbonate altered; 2-3% Felsic Ash to				
				QFP fragments 1cm to 5cm, flattened				
				all to foliation				
				97.00 to 97.33				
				And Ash				
				CAB at 97.47	50°			

HOLE NO 216

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				1 to 7 mm				
97.47 to 109.60	Felsic Quartz Feldspar Porphyry Tuff (QFP Tuff)	light gray green	medium	Thick bedded, mod foli; 5 to 10% QE <1mm to 2mm, 5 to 10% wh to glassy to predominately clay altered feldspar xls to 1/2 mm		wk to mod developed sericite and chlorite on foliation surfaces; below 101.45 m local carb stain, after feldspars and patches	trace disseminated pyrite	Same as the unit in the above unit
				CAF at 100.60	30°			
				106.00 to 108.90 feldspar size and percent increase, 10% to 1 1/2 mm;		Interval has patchy bleaching and silicification; also has a veiny or patchy chlorite alteration		
				108.90 to 109.60 Aud. Ash				
				CAB 108.90	55°			
				CAB 109.60	52°			
109.60 to 134.04	Felsic Quartz Feldspar Porphyry (F(Q)P Tuff)	light to medium grey green	medium	Thick bedded; moderately foliated; 1-2% QE <1mm to 2mm, 10 to 15% feldspar xls, white to glassy to 2mm; local areas up to 20% feldspar;		patchy bleaching and silicification, moderately developed sericite and minor chlorite on foliation surf; local patchy chlorite	trace disseminated pyrite	Crowded Feldspar Porphyry
				CAF 127.15	40°			
				127.70 to 128.00 quart veins				

HOLE NO 216

PAGE 5

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				138.47 to 138.65		—		
				And. Ash - Tuff				
				CAB 138.47	39°			
134.04 to	Felsic Quartz Feldspar	medium	medium	Thick bedded, wk to moderately		moderate developed sericite and	trace disseminated pyrite	
154.63	Porphyry	grey green		foliated, 5% QE 1-1mm to 2mm;		chlorite on foliation surfaces;		
				rare to 6mm; 5% to loc 10% wk to ghosty,		patchy chlorite development;		
	(QFP Tuff)			clay and carbonate altered feldspar		also patchy bleaching		
				xls to 1 mm;				
				138.97 to 139.38				
				And. Ash (Dioritic?)				
				138.38 to 139.17		Intensely Bleached		
				139.17 to 139.93				
				And. Ash (Dioritic?)				
				CAB 139.17	45°			
				CAB 139.93	50°			
				144.98 to 145.20				
				And Tuff to Ash				
				CAB 145.20	55°			
				145.50 to 145.74				
				And Ash				
				CAB 145.50	50°			

HOLE NO 216

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				147.45 to 147.61		mod to str calcareous		
				And Tuff				
				148.86 to 150.25		mod to str calcareous		
				And Ash				
				CAB 150.25	57°			
				153.62 to 153.90				
				And Ash				
154.53	Felsic Quartz	light to	medium	Thick bedded massive; moderately		moderately developed sericite	trace disseminated pyrite.	very granular look to the
214.13	Feldspar Porphyry	medium	grained	foliated; <5% QE to 1mm, rare to 3mm;		and chlorite on foliation planes;		interval.
	~~(Tuff)~~	grey		<5% feldspar xls, clay altered, gritty and		some alteration after feldspars;		
	(QFP Tuff)			carbonate altered to ½mm; 2% m-dk		minor chloritic patches.		
				green lith frags to ½mm;		patchy bleaching and silicification		
						below 189.38 gives a weak		
				189.00 c/s fabric	60°	brecciated appearance.		
				168.30 to 169.38				
				Andesite Ash "Sheared"				
				169.38 to 214.13		1% chlorite patches, possible		
				170.95 to 170.98		fragments up to 4cm x 1½ cm.		
				Andesite Ash				

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				186.52 to 186.63				
				And Ash, Sheared				
				CAF at 190.00	30°			
				189.28 to 195.38		abundant carbonate alteration		
				196.64 m to 214.13		abundant carbonate alteration		
214.13 to 217.40	Felsic Tuff (F Tuff)	white to very light grey	f-mgr	mod bedded; mod fol; <3% QE to 1mm; <3% feldspars to ½mm; these are very indistinct; 3-5% m-dk green lithic frags up to 1cm x 1mm;		well developed sericite and minor chlorite on foliation surfaces	<1% disseminated, and minor patches of fol f-mgr pyr.	
				216.11 to 217.40; intermediate to Andesitic Ash		locally strongly calcareous, and	3% disseminated, patchy and stringers of mgr pyr;	
217.40 to 224.40	Felsic Tuff (F Tuff)	white to very light grey	fgr	Thick bedded; mod to str fol; 1-2% QE to 1mm; 2-3% Feldspar xls to ½mm, hard to distinguish; <1% to <1% m-dk gr lithic fragments up to 1cm x 3mm;		well developed chlorite on foliation surfaces	<1% diss fgr pyr, rare trace cp.	Zone between 217.40 and 218.5m
				217.40 to 217.86			3% disseminated, ~~fol and laminated~~ and patchy fine to mgr grained pyrite	

HOLE NO 246

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				217.86 to 218.08		—	5-10% pyrite, <1% sphalerite; trace chalcopyrite; "stringers"	
				218.08 to 218.27 Intermediate to Andesite Ash			3% patchy pyrite.	
				218.27 to 218.56			15 to 20% pyrite, 1% sphalerite, <1% chalcopyrite, trace galena; banded to semi massive "stringers"	foliation contorted;
				218.48 to 218.56 Fault 100% gouge				
				218.56 to 219.46 Fault, very strongly sheared, significant core loss				
				219.46 to 220.00			3% stringery fine to medium grained pyrite.	
				220.00 to 220.16 Intermediate to andesite Ash				
				CAF at 221.15	43°			
				222.90 to 223.07 And Ash.				
				227.69 to 230.10		patchy silicification and carbonate.		

HOLE NO 216

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				230.50 to 230.90		—		
				Andesite to Intermediate Ash				
				232.61 to 241.40		patchy to pervasive carbonate		
						alteration, patchy silicification and		
						chlorite alteration.		

HOLE NO 216

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to								
3.04	{OB}							
3.04 to	Quartz	light to	medium	Thick bedded, massive; weakly		moderate sericite, minor	Trace disseminated pyrite	
25.62	Porphyry Felsic	medium	grained	foliated; 5 to 6% quartz eyes		chlorite on foliation surfaces		
	Tuff	grey, weak		1mm to 7mm; granular in		"locally a well developed		
		green		appearance		mottled appearance" elsewhere		
	{QP Tuff}	cast				this may be obscured by		
						bleaching;		
25.62	Felsic Tuff	light	medium	Thick bedded; massive; weak to		↓	↓	
		grey, weak	grained	moderately foliated; very granular		well developed sericite on	2% pyrite, fine to medium	
	{F Tuff}	greencast		in appearance; minor quartz		foliation surfaces, strongly	grained disseminated, local	
				eyes to 2mm; local well defined		bleached.	stringers, rare chalcopyrite and	
				felsic fragments to 1cm;			sphalerite.	
				30.07 to 30.29 Fault				
				very strongly sheared, abundant				
				gouge.				
				31.54 to 31.69 strongly sheared, gouge				
				33.34 to 33.44 strongly sheared, gouge	20°			
				35.53 to 36.07 strongly sheared, gouge				
							37.30 to 39.67	
							5% pyrite; massx (pyrite) between	
							37.80 and 37.97;	
				39.23 to 39.30, strongly sheared				

HOLE NO 87-217

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
							39.67 to 41.28, 5% pyrite disseminated patchy and minor stringers	
				44.20 to 50.59				
				10% interbedded felsic ash				
				50.49 to 50.59 intensly sheared abundant gouge.				
				50.59 to 52.86				
				Andesite Lithic Tuff <AndLT>				
52.86	Felsic Tuff	light	fine	Moderately foliated, moderately foliated		moderate to well developed	1% pyrite, disseminated and	
58.30	to Ash	grey	to			sericite on foliation surfaces	local stringers	
			medium					
	<F Tuff-Ash>		grained					
				52.86 to 52.91, Fault, strongly				
				sheared, abundant gouge	59°			
				54.08 to 56.38, Fault, strongly sheared				
				abundant gouge.				
58.30 to	<Diorite>	medium to	fine to	Massive Kaarnitsen				
76.10		dark	medium					
		green	grained					
				58.30 to 62.37				
				fine grained phase, minor				
				felsic inclusions.				

HOLE NO 87-217

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
76.10 to	Felsic Tuff	light to	fine to	Thick bedded; moderately foliated;		moderate sericite development	minor pyrite;	
82.60		medium	medium	weak mottled texture; minor		on foliation surfaces		
	(F Tuff)	grey; weak	grained	quartz eyes to 6mm;				
		greenish						
				79.85 to 81.10				
				Intermediate to Andesitic in			80.60 to 80.70	
				Composition; minor shear and			30% coarse grained pyrite	
				sgouge throughout				
				82.50 to 82.60, Fault; intensely				
				sheared; abundant sgouge	25°			
82.60	Andesite Lithic	medium to	fine to	Thick bedded, massive, moderately		weak to moderate chlorite	1-2% pyrite, disseminated;	
96.26	Tuff	dark green	medium	bedded; very granular in		development on foliation	local stringers, minor	
			grained	appearance; rare epidized		surfaces.	chalcopyrite;	
	(And LT)			lapilli to 5cm				
				strongly sheared and minor				
96.26	EOH			sgouge between				
				84.83 to 86.78				
				89.58 to 89.61				

HOLE NO 87-217

LITHOGEOCHEMISTRY

217

SAMPLE NUMBER			MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	RAT	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type
87217-1	64.90	67.30	44.63				1.96				2.40	0.012						
87217-2	93.70	96.60																Cannot locate
16251	7.00	10.00	67.63				1.03				0.25	0.155	38	61				
16252	27.00	30.00	67.73				0.12				0.28	0.210	15	34				
16253	45.00	48.00	64.99				0.02				0.37	0.185	42	183				
16254	58.00	61.00	50.59				1.46				1.24	0.100	177	127				
16255	77.00	79.00	64.69		?		1.97		?		0.88	0.145	146	68				
16256	85.00	88.00	51.35				2.59				0.67	0.125	114	128				
includes felsic material																		

Page No

FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
0.00 to 3.04	(OB)							
3.04 to 6.70	Intermediate Tuff (Int Tuff)	light greyish green	medium grained	Moderately bedded, moderately foliated; weak granular appearance.		moderate to well developed sericite on foliation surface	trace disseminated pyrite	
6.70 30.75	Andesite Ash (And Ash)	medium to dark green	fine grained	Thick bedded, moderate to well foliated;		moderate to well developed chlorite on foliation surfaces; strongly calcareous	trace disseminated pyrite	minor Fe carb
30.75 to 35.39	Felsic Tuff (F Tuff)	light grey, weak greencast	fine to medium grained	Thick bedded, massive, weak to moderately foliated; weak granular appearance		moderate sericite development on foliation surfaces, weak mottled appearance.	1-2% pyrite, disseminated and minor stringers	
35.39 to 32.01	Porphyry Felsic Tuff (PP Tuff)	light to medium grey	medium grained	Thick bedded, massive, weak to moderately foliated; 10% quartz eyes <1 to 5mm;		weak to moderate sericite development on foliation surfaces	trace disseminated pyrite	
32.01 40.23	Felsic Tuff (F Tuff)	light to medium grey	medium grained	Thick bedded, massive, weak to moderately foliated; minor quartz eyes to 2mm; quite granular in appearance.		weak to moderate developed sericite on foliation surfaces	2-3% pyrite, disseminated, patchy and stringers, local minor chalcopyrite.	

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FROM TO	ROCK TYPE	COLOUR	GRAIN SIZE	TEXTURE AND STRUCTURE.	ANGLE TO CORE AXIS	ALTERATION	SULPHIDES	REMARKS
				37.10 to 40.23		bleached;		foliation locally contorted
				strongly sheared, minor gouge between				
				37.10 to 37.18 m				
				37.47 to 37.50 m				
				39.07 to 39.18 m				
				39.28 to 40.23 m.				
40.23 to	Andesite	light to	fine to	Thin bedded; moderately foliated,		moderate to well	1-2% pyrite, disseminated;	common F2 folds
94.51	Lithic Tuff	medium	medium	wavy grain in appearance		developed chlorite on	rare stringers; trace	
		green	grained			foliation surfaces	chalcopyrite	
	(Andesite)							
				44.11 to 44.26, strongly sheared				
				abundant gouge.				
				72.23 to 77.22				
				(Diorite) Karmutsen, coarse				
				grained		77.22 to 80.77		
						strongly bleached;		
				90.23 to 94.51				
				rare epidotized fragments to				
				5cm;				
94.51 to	(Diorite)	medium to	medium	Karmutsen, medium to coarse				
106.81		dark	to coarse	grained phases;				
		green	grained					
106.81	EOH							

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LITHOGEOCHEMISTRY

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SAMPLE NUMBER			MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	BAT	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type
872181	23.20	26.20	61.32				0.37				0.34	0.187	159	147				
872182	59.60	62.60	52.00				1.89				0.61	0.146	193	212				
872183	93.10	96.10	48.78				1.66				1.19	0.045	176	139				
16257	5.00	8.00	56.16				1.83				0.58	0.095	54	84				
16258	37.94	40.22	58.70				0.57				0.48	0.175	330	132				
16259	80.00	83.00	50.54				0.62				0.69	0.095	228	215				